OSSINING UNION FREE SCHOOL DISTRICT

BROOKSIDE ELEMENTARY SCHOOL

CLASSROOM ADDITION PROJECT

SED# 66-14-01-03-0-001-022

OWNER

OSSINING UNION FREE SCHOOL DISTRICT
400 EXECUTIVE BOULEVARD
OSSINING, NEW YORK 10562
PHONE: 914-941-7700

ARCHITECT / ENGINEER

CLARK PATTERSON LEE
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
PHONE: 800-274-9000

LOCATION MAP

BROOKSIDE ELEMENTARY SCHOOL
30 RYDER RD, OSSINING, NY 10562

GENERAL NOTES

THE DESIGN OF THIS PROJECT CONFORMS TO ALL APPLICABLE PROVISIONS OF NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CODE, AND THE BUILDING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

DRAWING LIST

GENERAL:
GEN-T000 TITLE SHEET

ASBESTOS ABATEMENT:
BES-AA000 ASBESTOS NOTES
BES-AA101 MAIN FLOOR ASBESTOS REMOVAL PLAN

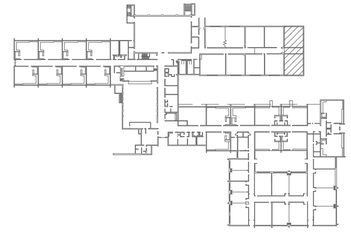
CIVIL:
BES-C001 OVERALL SITE PLAN
BES-C100 DEMOLITION PLAN
BES-C200 SITE PLAN
BES-C201 GRADING PLAN
BES-C202 UTILITY PLAN
BES-C203 EROSION & SEDIMENT CONTROL PLAN
BES-C300 SITE NOTES
BES-C301 SITE DETAILS 1
BES-C302 SITE DETAILS 2

STRUCTURAL:
BES-S200 BASEMENT FOUNDATION PLAN
BES-S201 FIRST FLOOR FRAMING & FOUNDATION PLAN
BES-S202 ROOF FRAMING PLAN
BES-S400 SECTIONS AND DETAILS
BES-S401 SECTIONS AND DETAILS
BES-S800 STRUCTURAL NOTES
BES-S801 TYPICAL DETAILS

ARCHITECTURAL:
BES-A001 OVERALL BASEMENT & FIRST FLOOR PLANS & CODE INFORMATION
BES-A101 EXISTING FIRST FLOOR & ROOF DEMOLITION PLANS
BES-A102 EXISTING/DEMOLITION EXTERIOR ELEVATIONS & BUILDING SECTION
BES-A201 BASEMENT FLOOR NEW WORK PLAN
BES-A202 FIRST FLOOR NEW WORK PLAN
BES-A203 NEW WORK ROOF PLAN
BES-A301 NEW WORK EXTERIOR ELEVATIONS
BES-A401 NEW WORK BUILDING SECTIONS
BES-A402 NEW WORK WALL SECTIONS
BES-A403 NEW WORK WALL SECTIONS
BES-A601 FIRST FLOOR NEW WORK FINISH PLAN
BES-A602 FIRST FLOOR NEW WORK PATTERN PLAN
BES-A603 FIRST FLOOR NEW WORK REFLECTED CEILING PLAN
BES-A701 CASEWORK ELEVATION & DETAILS
BES-A801 NEW WORK DETAILS
BES-A802 NEW WORK DETAILS
BES-A901 WINDOW & DOOR SCHEDULES, TYPES & DETAILS
BES-A902 WALL TYPES

MECHANICAL:
BES-H000 HVAC SYMBOLS LIST
BES-H200 HVAC NEW WORK
BES-H201 WASTE DEMOLITION AND NEW WORK PLANS
BES-H800 HVAC SCHEDULES AND DETAILS
BES-H801 HVAC DETAILS AND CONTROLS DIAGRAM

ELECTRICAL:
BES-E000 ELECTRICAL LEGEND AND NOTES
BES-E100 FIRST FLOOR ELECTRICAL KEY PLAN
BES-E101 FIRST FLOOR ELECTRICAL DEMOLITION PLAN
BES-E201 BASEMENT AND FIRST FLOOR ELECTRICAL NEW WORK PLANS
BES-E301 BASEMENT AND FIRST FLOOR LIGHTING PLANS
BES-E900 ELECTRICAL SCHEDULES



KEY PLAN
SCALE: N.T.S.

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ARCHITECTURE + ENGINEERING + PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

REVISIONS NO.	DATE	DESCRIPTION

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT
SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	RG	MJ

SCALE AS NOTED

SHEET TITLE
TITLE SHEET

PROJECT NUMBER
14428.11

GEN
T000
DRAWING NUMBER

Plotted By: Mark Johnson
Date last plotted: 5/14/2021 9:04 AM
Date last acRPCsed: 5/14/2021 9:03 AM
Drawing Name: S:\Projects\Ossining UFSD\Brookside 2 CR Add\D Design\06 CAD\AutoCAD\Common\T000-1.dwg

PRE-ABATEMENT WORK NOTES:

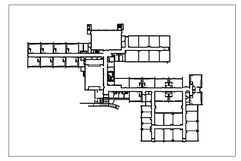
1. THESE DRAWINGS HAVE BEEN PREPARED BY UTILIZING THE OWNERS ORIGINAL CONSTRUCTION DOCUMENTS IN ORDER TO ILLUSTRATE THE EXISTING CONDITIONS OF THE SITE AND STRUCTURES THERIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL VERIFICATION OF ALL EXISTING CONDITONS IN THE FIELD.
2. THE ASBESTOS CONTAINING MATERIALS, CONFIGURATIONS AND LOCATIONS SHOWN IN THESE DRAWINGS ARE BASED ON THE ASBESTOS CONTAINING MATERIALS TESTING REPORT. REFER TO THE ASBESTOS CONTAINING MATERIALS REPORT AND ASBESTOS SPECIFICATION FOR FURTHER INFORMATION.
3. THE CONTRACTOR SHALL DETERMINE EXACT FINAL LOCATIONS OF PERSONAL AND WASTE DECONTAMINATION ENCLOSURES, PICK UP AREA FOR REFUSE AND ASBESTOS DEBRIS. THESE LOCATIONS SHALL BE REVIEWED AND PROPERLY APPROVED BY THE SCHOOL DISTRICT PRIOR TO COMMENCEMENT OF WORK. THIS CONTRACTOR SHALL ESTABLISH, LABEL AND MAINTAIN PROPER EXISTS AND WAYS OF DEPARTURE WITHIN EACH WORK AREA FOR NORMAL AND EMERGENCY USE BY WORKERS FURING ALL ABATEMENT.
4. THE CONTRACTOR, PRIOR TO BIDDING, SHALL BE RESPONSIBLE TO BECOME COMPLETELY FAMILIAR WITH ALL ASPECTS OF THE PROJECT, INCLUDING, BUT NOT LIMITED TO ALL DEMOLITION AND CONSTRUCTION WORK SHOWN IN THE COMPLETE SET OF DRAWINGS AND IN THE PROJECT MANUAL/SPECIFICATIONS, IN ORDER THAT THE FULL SCOPE OF WORK WHICH MAY ENCOUNTER ASBESTOS CONTAINING MATERIALS IS UNDERSTOOD AND ACCOUNTED FOR BY THE CONTRACTOR IN HIS/HER PROJECT WHETHER OR NOT SHOWN IN THESE DOCUMENTS.

ASBESTOS REMOVAL GENERAL NOTES:

1. ASBESTOS ABATEMENT INDICATED ON DRAWINGS SHALLBE PERFORMED BY A NYS DEPARTMENT OF LABOR LICENSED ASBESTOS ABATEMENT CONTRACTOR, SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND QUANTITIES PRIOR TO BID.
2. THE CONTRACTOR SHALL PERFORM ALL CONTRACT WORK IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS, NEW YORK STATE DEPARTMENT OF LABOR (NYSDOL) INDUSTRIAL CODE RULE 56, OSHA, NESHAPS, AHERA, NYSDEC AND ALL OTHER APPLICABLE CODES.
3. THE CONTRACTOR SHALL MAINTAIN THE SITE AS NEAT AS POSSIBLE AND ORDERLY DURING THE WORK. ALL LOOSE DEBRIS WHICH MAY BLOW OFF THE SITE SHALL BE COLLECTED AND DISPOSED OF PROPERLY BY THE CONTRACTOR ON A DAILY BASIS.
4. THE CONTRACTOR SHALL PROVIDE BARRIERS AROUND EACH WORK AREA IN ORDER TO ENSURE SAFE PASSAGE BY ANY PERSON. THESE BARRIERS SHALL ALSO SERVE TO KEEP ALL UNAUTHORIZED PERSONS OUT OF THE PROJECT AREA FOR DURATION OF THE WORK.
5. VARIANCES: CONTRACTOR SHALL PAY FOR AND OPBTAIN ANY NECESSARY SITE-SPECIFIC VARIANCES.
6. THE CONTRACTOR SHALL MAINTAIN SECURITY IN THE BUILDING AND EACH WORK AREA AT ALL TIMES.
7. PROJECT STAGING, STORAGE, SCHEDULING AND ACCESS SHALL BHE COORDINATED WITH AND APPROVED BY THE ARCHITECT AND OWNER PRIOR TO PROCEEDING WITH ANY WORK.
8. SHOULD IT BE NECESSARY, CONTRACTOR SHALL COORDINATE SHUT DOWN AND LOCK OUT OF THE ELECTRICAL POWER WITH OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF ANY WORK.
9. ALL TEMPORARY POWER TO EACH WORK AREA SHALL BE BROUGHT IN FROM OUTSIDE OF EACH WORK AREA THROUGH A GROUND-FAULT CIRCUIT INTERRUPTER AT THE SOURCE.
10. CONTRACTOR SHALL COORDINATE HOOKUP OF WATER SERVICE FOR DECONTAMINATION PURPOSES WITH THE OWNER'S REPRESENTATIVE. WATER FOR THE DECONTAMINATION UNITS IS AVAIABLE FROM THE OWNER.
11. THE OWNER OR OWNER'S REPRESENTATIVE IS RESPONSIBLE TO CONTRACT FOR NYSDOL PROJECT MONITORING/AIR SAMPLING TECHNICIAN SERVICES AS REQUIRED.
12. CONTRACTOR TO PROVIDE A COPY OF ALL SDS FOR ALL CHEMICAL AGENTS TO BE USED DURING THE ASBESTOS ABATEMENT TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO ANY ABATEMENT WORK UNDERTAKEN.
13. CONTRACTO SHALL REQUEST AND RECEIVE OWNER'S REPRESENTATIVES APPROVAL OF ALL WORK BEFORE ANY ABATEMENT IS UNDERTAKEN.
14. UNDER NO CIRCUMSTANCES SHALL CONTAMINATED WASTE WATER BE FILTERED THROUGH A SYSTEM WITH AT LEAST A 5.0 MICRON PARTICLE SIZE COLLECTION CAPABILITY.
15. DRAWINGS ATTEMPT TO INDICATE THE GENERAL SCOPE OF EXISTING CONDITIONS AND ITEMS EFFECTED BY THE ABATEMENT WORK. CONTRACTOR SHALL EXAMINE EACH WORK AREA PRIOR TO BID AND SHALL INCLUDE FIELD VARIATIONS FROM THOSE SHOWN WITH IN THE GENERAL INTENT OF THE WORK.
16. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ASBESTOS CONTAINING MATERIALS CONTAINED WITHIN THE PROJECT AND ASSOCIATED WITH ALL PROJECT WORK, IN COMPLIANCE WITH ALL APPLICABLE LAWS, REULES, REGULATIONS AND ALL REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
17. THE CONTRACTOR SHALL REMOVE AND DISPOE OF ALL ASBESTOS CONTAINING MATERIALS CONTAINED WITHIN THE PROJECT AND ASSOCIATED WITH ALL PROJECT WORK, IN THE MOST EFFICIENT AND COST-EFFECTIVE METHOD POSSIBLE, WHICH ALSO COMPLIES WITH THE REQUIREMENTS LISTED ABOVE.

POST-ABATEMENT WORK NOTES:

1. PROVIDE ALL APPLICABLE CODE RULE 56 PROCEDURES, CLEAN UP, AND ADDITIONAL TESTING AS REQUIRED.
2. PRIOR TO ABATEMENT, ALL CONTRACTORS WILL SURVEY EXISTING CONDITIONS IN THE ABATEMENT AND GENERAL WORK AREAS. ITEMS/MATERIALS/ETC. DAMGED, OR NON-FUNCTIONAL SHALL BE LISTED, NOTED, PHOTOGRAPHED AND REVIEWED WITH THE PROJECT INSPECTOR. ALL OTHER ITEMS/MATERIALS SHALL BE REVIEWED WITH THE PROJECT INSPECTOR. ALL OTHER ITEMS/MATERIALS SHALL BE ASSUMED TO BE IN GOOD CONDITION AND GOOD WORKING ORDER. IT SHALL BE THE RESPONSIBILITY OF THE ABATEMENT CONTRACTOR TO MAINTAIN ALL MATERIALS, ITEMS, EQUIPMENT, SYSTEMS, ETC. IN ITS ORIGINAL CONDITION AND RETURN TO OWNER/GC, ETC. IN SAME CONDITION AT THE END OF THIS CONTRACT.
3. REMOVAL ALL TEMPORARY ENCLOSURES, BARRIERS, ETC. REINSSTALL ITEMS/WORK PREVIOUSLY REMOVED. ALL TAPE AND ADHESIVE RESIDUALS TO BE REMOVED AND REPAIRED.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INSURE AGAINST DAMAGE TO THE EXISTING WORK TO REMAIN IN PLACE. ANY DAMAGE TO SUCH WORK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ARCHITECT AND OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
5. AT COMPLETION OF THE ABATEMENT WORK, A CONDITION SURVEY SHALL BE DONE BY ALL CONTRACTORS AND PROJECT INSPECTOR (SEE NOTE #2). ANY VARIATION (I.E. DAMAGE BY THE CONTRACTOR), AND OTHERWISE NOT INCLUDED AS PART OF THE RECONSTRUCTION WORK, SHALL BE REPAIRED.RESTORED BY THE ABATEMENT CONTRACTOR.
6. THE CONTRACTOR SHALL, UPON COMPLETION OF THE REMOVAL, PROVIDE WRITTEN DOCUMENTATION (INCLUDING ALL APPROPRIATE THRID PARTY TESTING RESULTS) THAT THE PROJECT WORK AREAS ARE COMPLETELY FREE OF ALL ASBESTOS CONTAINING MATERIALS.
7. THE CONTRACTOR SHALL PROVIDE RECORDS OF ALL ASBESTOS CONTAINING MATERIALS REMOVED FROM THE SITE, INCLUDING THE COMPOSITION AND VOLUMES OF DISPOED MATERIALS AND THE FINAL DISPOSAL SITE.



KEY PLAN
BROOKSIDE ELEMENTARY SCHOOL
NOT TO SCALE

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ARCHITECTURE + ENGINEERING + PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

REVISIONS		
NO.	DATE	DESCRIPTION

STATE OF NEW YORK
ANTHONY NICHOLAS BRUNO
LICENSED PROFESSIONAL ENGINEER
087707

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION

SED #66-14-01-03-0-001-022

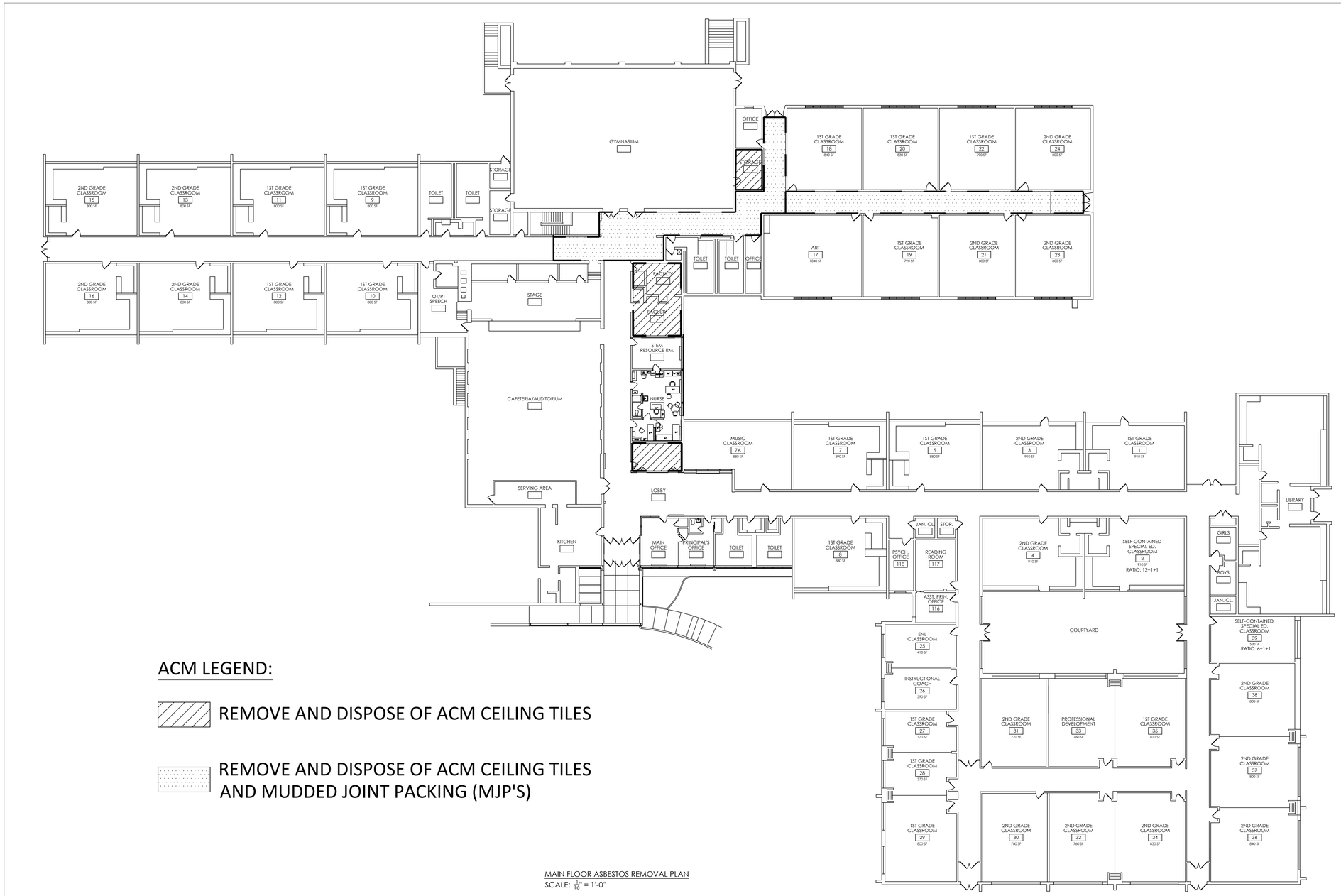
DATE	DRAWN	CHECKED
06/22/2020	AM	RL

SCALE AS NOTED

SHEET TITLE
ASBESTOS
NOTES

PROJECT NUMBER
14428.11

BES
AA000
DRAWING NUMBER

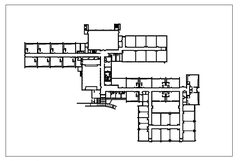


ACM LEGEND:

REMOVE AND DISPOSE OF ACM CEILING TILES

REMOVE AND DISPOSE OF ACM CEILING TILES AND MUDDED JOINT PACKING (MJP'S)

MAIN FLOOR ASBESTOS REMOVAL PLAN
SCALE: $\frac{1}{16}$" = 1'-0"



KEY PLAN
BROOKSIDE ELEMENTARY SCHOOL
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TEL (800) 274-9000
FAX (845) 567-9614

REVISIONS		
NO.	DATE	DESCRIPTION

STATE OF NEW YORK
ANTHONY NICHOLAS RUSSO
LICENSED PROFESSIONAL ENGINEER
061937

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION

SED #66-14-01-03-0-001-022

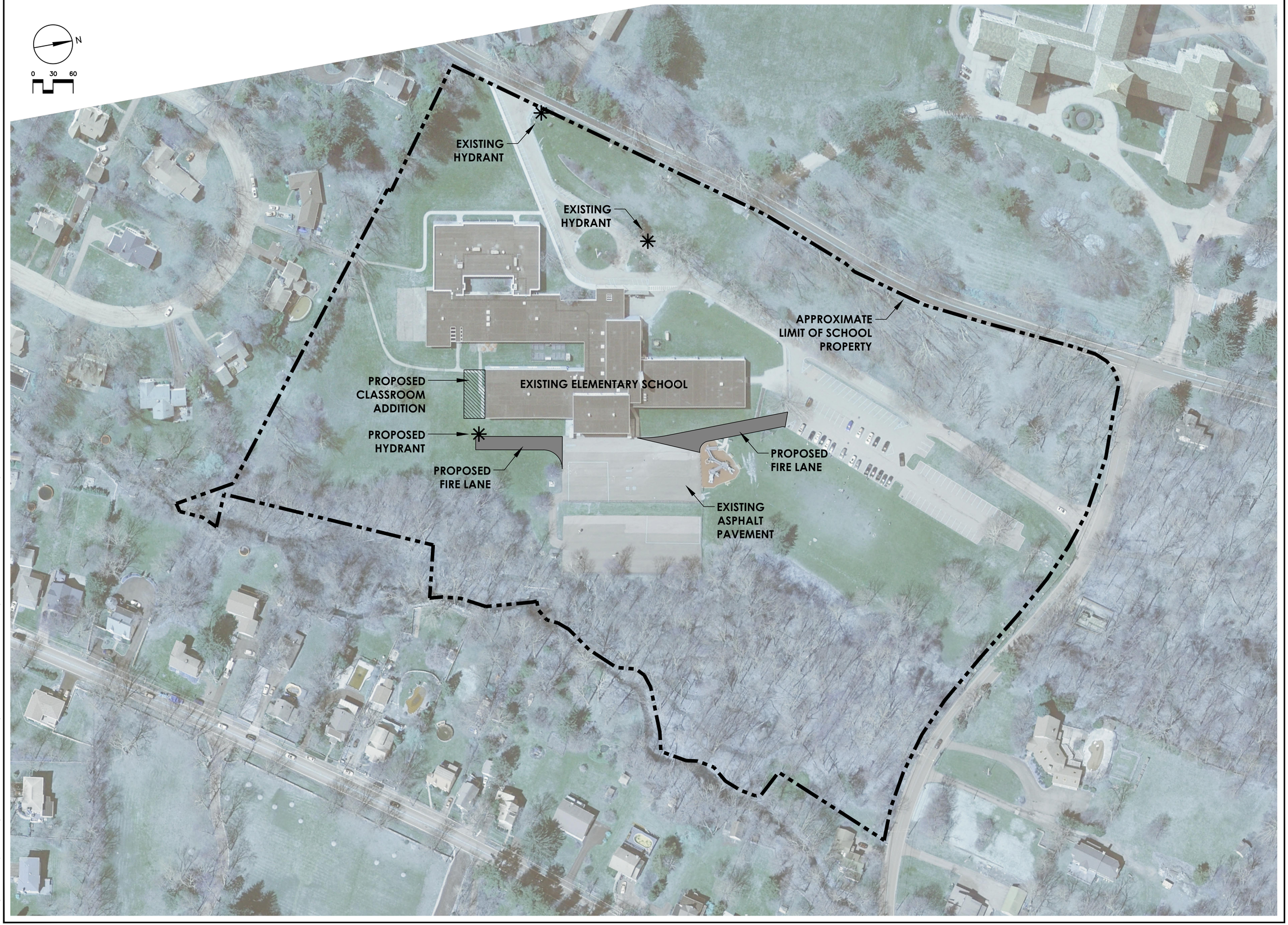
DATE	DRAWN	CHECKED
06/22/2020	AM	RL

SCALE AS NOTED

SHEET TITLE
MAIN FLOOR
ASBESTOS REMOVAL
PLAN

PROJECT NUMBER
14428.11

BES
AA101
DRAWING NUMBER



Plotted By: Richard Waite

Date last plotted: 4/28/2021 11:46 AM

Date last acRPCsed: 4/28/2021 11:46 AM

Drawing Name: S:\Projects\Ossining UFSD\Brookside 2 CR Add\D Design\06 CAD\AutoCAD\Civil\C2\Ossining Brookside CL Addition Overall Site Plan.dwg

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NEWBURGH, NEW YORK 12550
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FAX (845) 567-9614

REGISTERED LANDSCAPE ARCHITECT
RICHARD H. WAITE
001586
STATE OF NEW YORK

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT

SED# 66-14-01-03-0-001-022

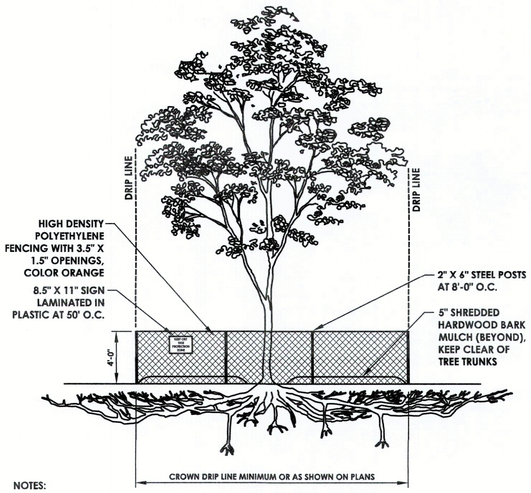
DATE	DRAWN	CHECKED
4/28/2021	RHW	RHW

SCALE 1"=60'

SHEET TITLE
OVERALL SITE PLAN

PROJECT NUMBER
14428.11

BES
C001
DRAWING NUMBER



NOTES:

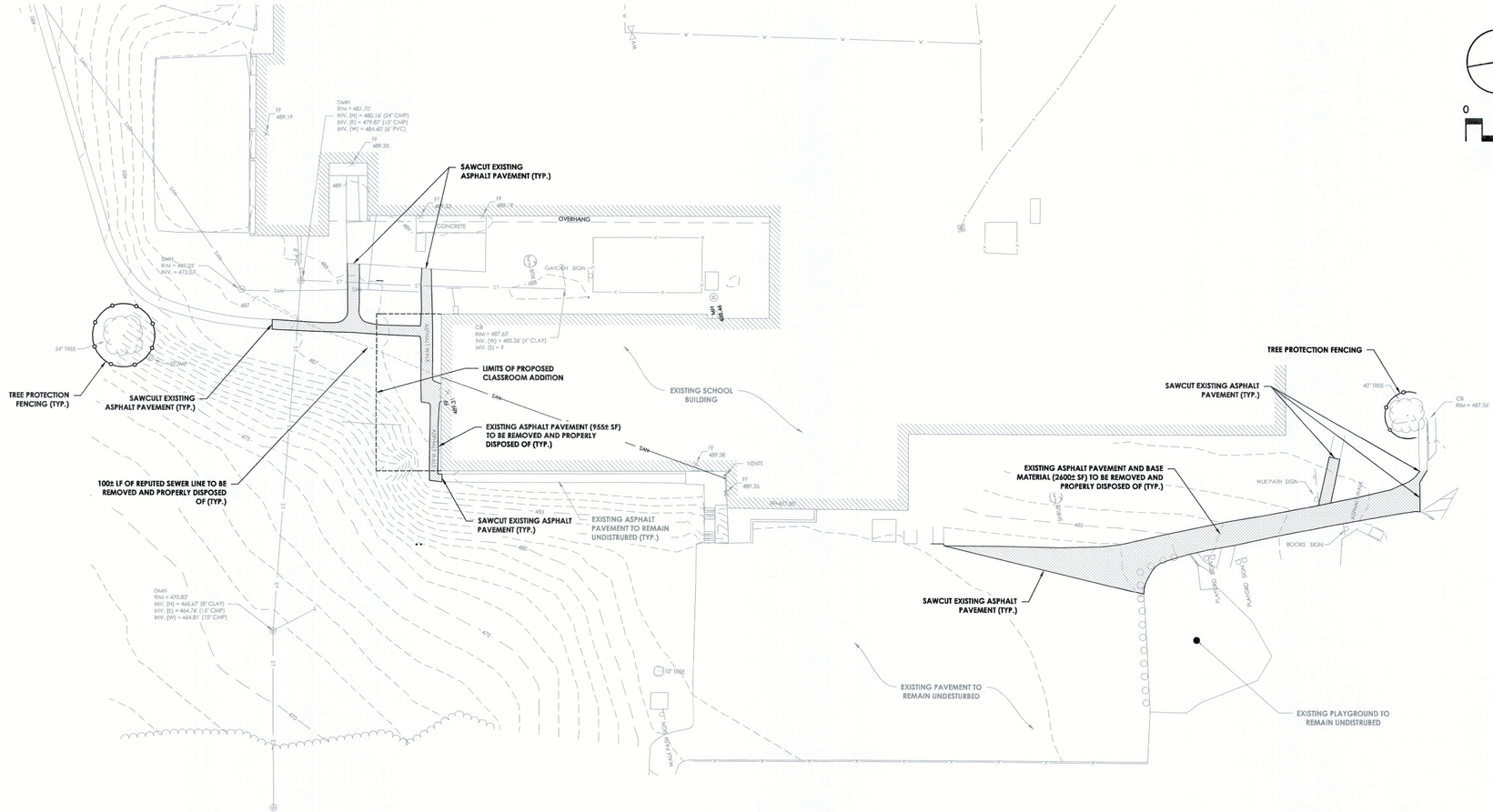
1. INDIVIDUAL TREES AND PLANT GROUPS TO RECEIVE THIS PROTECTIVE TREATMENT ARE INDICATED ON THE DEMOLITION PLAN. WHERE SPATIAL CONSTRAINTS PREVENT INSTALLATION OF THE FENCING AS SHOWN ON THE PLANS AND THIS DETAIL, CONSULT WITH THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

2. NO CROWN OR ROOT PRUNING SHALL BE PERFORMED INSIDE OF THE PROTECTIVE FENCING EXCEPT BY AN APPROVED ARBORIST.

3. NO EQUIPMENT SHALL BE OPERATED INSIDE THE PROTECTIVE FENCING INCLUDING DURING THE TIMES OF FENCE INSTALLATION AND REMOVAL.

TREE PROTECTION FENCING

N.T.S



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BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT

SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/2020	RHW	RJJ

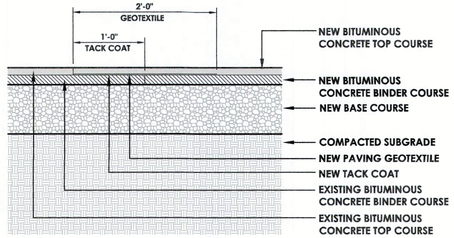
SCALE 1"=30'

SHEET TITLE
DEMOLITION PLAN

PROJECT NUMBER
14428.11

BES
C100
DRAWING NUMBER

Drawing Name: S:\Projects\Ossining UFSD\Brookside 2 CR Add\D Design\06 CAD\AutoCAD\Civil\C2\Ossining Brookside CL Addition Civil Set.dwg Date last acRPCsed: 1/14/2021 11:43 AM Date last plotted: 1/14/2021 3:50 PM Plotted By: Bryce Recer



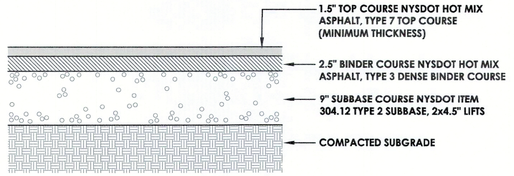
NOTES:

1. UTILIZE THIS DETAIL WHEREVER NEW BITUMINOUS CONCRETE PAVEMENT ABUTS EXISTING BITUMINOUS CONCRETE PAVEMENT.

2. SAW CUT EXISTING PAVEMENT AT PROPOSED JOINT AND MILL DOWN TOP COURSE TO RECEIVE NEW PAVEMENT AS SHOWN.

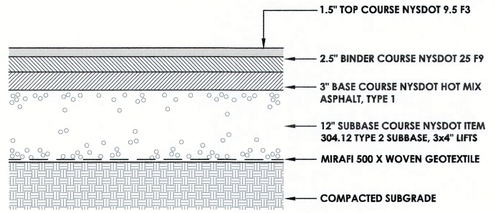
ASPHALT LAP JOINT

N.T.S.



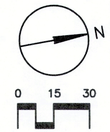
STANDARD DUTY ASPHALT PAVEMENT SECTION

N.T.S.



HEAVY DUTY ASPHALT PAVEMENT SECTION

N.T.S.



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SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/2020	RHW	RHW

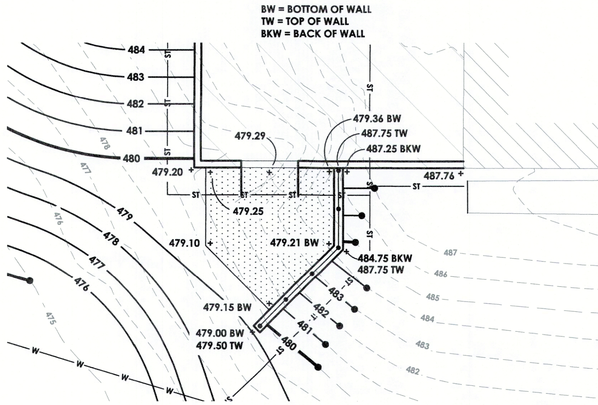
SCALE 1"=30'

SHEET TITLE
SITE PLAN

PROJECT NUMBER
14428.11

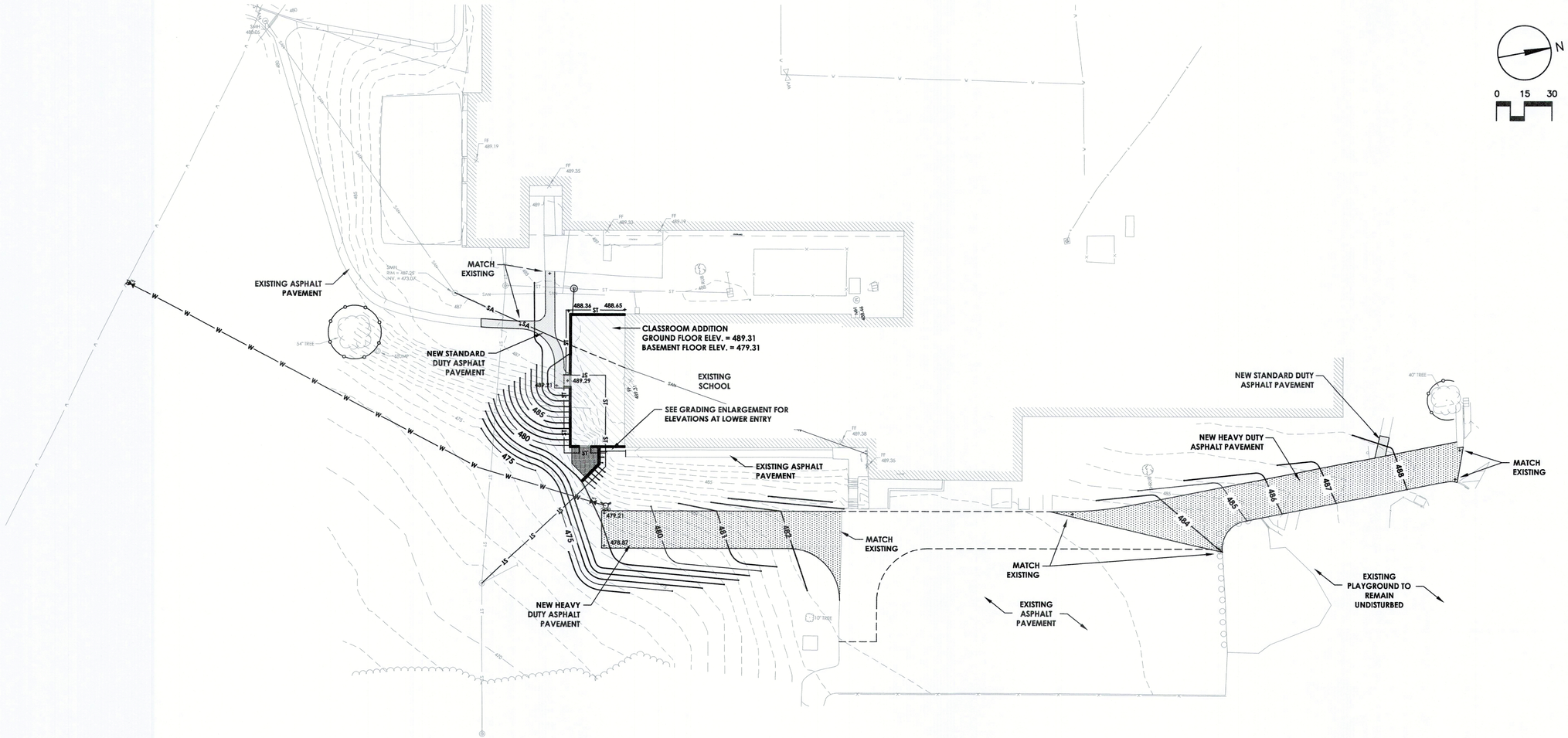
BES
C200
DRAWING NUMBER

Drawing Name: S:\Projects\Ossining UFSD\Brookside 2 CR Add\D Design\06 CAD\AutoCAD\Civil\C2\Ossining Brookside Ct. Addition Civil Set.dwg Date last accPCsed: 1/14/2021 11:43 AM Date last plotted: 1/14/2021 3:50 PM Plotted By: Bryce Recer



GRADING ENLARGEMENT

SCALE: 1/8" = 1'-0"



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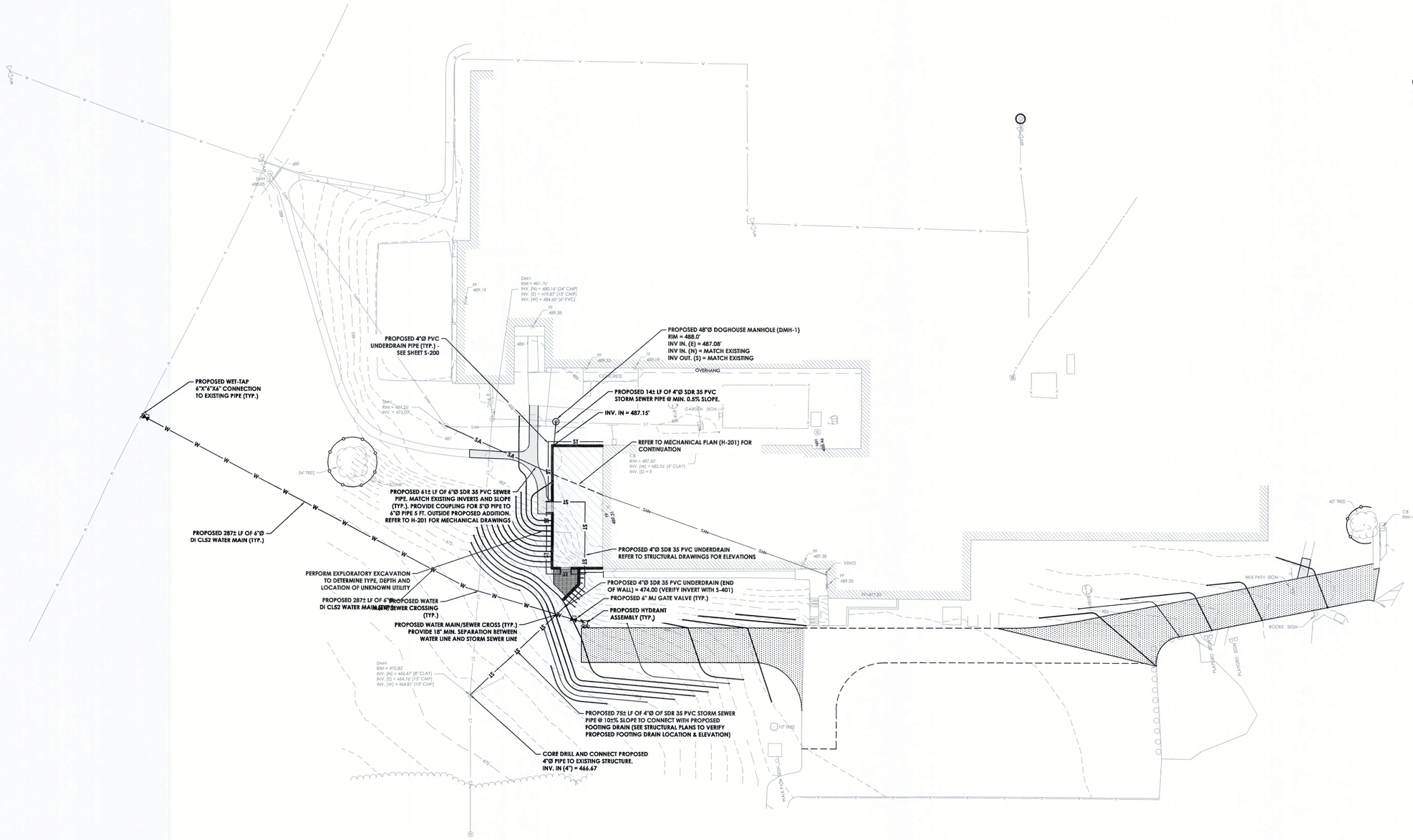
DATE	DRAWN	CHECKED
12/18//2020	RHW	RJJ

SCALE 1"=30'

SHEET TITLE
GRADING PLAN

PROJECT NUMBER
14428.11

BES
C201
DRAWING NUMBER



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DATE	DRAWN	CHECKED
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SCALE 1"=30'

SHEET TITLE
UTILITY PLAN

PROJECT NUMBER
14428.11

BES
C202
DRAWING NUMBER

Drawing Name: S:\Projects\Ossining UFSD\Brookside 2 CR Add\D Design\06 CAD\AutoCAD\Civil\C2\Ossining Brookside CL Addition Civil Set.dwg Date last acRPCsed: 1/14/2021 11:43 AM Date last plotted: 1/14/2021 3:50 PM Plotted By: Bryce Racer

AREA OF DISTURBANCE

SILT FENCE (TYP.)

SILT FENCE (TYP.)

LIMIT OF DISTRUBANCE
(AREA = 21,495 SF)
(AREA = 0.49 AC)

TOTAL SITE DISTURBANCE
(AREA = 29,318 SF)
(AREA = 0.67 AC)

STABILIZED
CONSTRUICTION
ENTRANCE (TYP.)

LIMIT OF DISTRUBANCE
(AREA = 7,823 SF)
(AREA = 0.18 AC)

PROPOSED CONCRETE
WASHOUT LOCATION (TYP.)

DESIGNATED AREA FOR
STOCKPILE OF MATERIAL

N

0 15 30

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SED# 66-14-01-03-0-001-022

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12/18/2020	BGR	RJJ

SCALE 1"=30'

SHEET TITLE
EROSION & SEDIMENT CONTROL PLAN

PROJECT NUMBER
14428.11

BES
C203
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

GENERAL NOTES:

1. ALL WORK IS TO BE COMPLETED IN ACCORDANCE WITH NYSDOH, OSHA,WESTCHESTER COUNTY DOH, AND VILLAGE OF OSSINING REQUIREMENTS.
2. PROVIDE ALL NECESSARY DOCUMENTATION TO SECURE ALL WORK PERMITS. COPIES OF ALL PERMITS SHALL BE FURNISHED TO THE ENGINEER PRIOR TO COMMENCING WORK.
3. THE LOCATIONS, SIZES AND ELEVATIONS OF EXISTING UTILITIES ARE BASED ON INFORMATION COMPILED BY THE ENGINEER FROM DRAWINGS OF RECORDS AND INFORMATION FURNISHED BY THE VARIOUS UTILITIES, WITH FIELD SURVEY VERIFICATION WHERE NECESSARY AND POSSIBLE. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND SHALL BE CONSIDERED APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE THIS INFORMATION VERIFIED AND LOCATED PRIOR TO CONSTRUCTION. NO CONSTRUCTION EXCAVATION, OR BORING SHALL BE DONE WITHOUT CERTIFICATION OF THE DEPTH AND LOCATION OF UTILITIES. CALL DIG SAFELY NY AT 811 AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.
4. LOCATE, FLAG AND PRESERVE SURVEY MONUMENTS AND PROPERTY CORNER MARKERS. A LICENSED SURVEYOR SHALL REESTABLISH ANY PROPERTY CORNERS OR SURVEY MONUMENTS DISTURBED DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL BE AWARE OF, AND COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE NYS LABOR DEPT. AND OSHA, REGARDING EQUIPMENT, PROCEDURES, WORKING CONDITIONS AND WORKER SAFETY. THE CONTRACTOR SHALL HAVE A "COMPETENT PERSON" ON SITE, WHO IS FAMILIAR WITH THESE REQUIREMENTS AND THE SCOPE OF THIS PROJECT.
6. HIGHWAY DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION.
7. ALL ASPHALT DRIVES, ROADWAYS AND CONCRETE SIDEWALKS, CURBING CROSSED BY THE NEW UTILITIES SHALL BE SAWCUT AND RESURFACED TO MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED.
8. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING INSTALLATION INCLUDING SITE PREPARATION, EXCAVATION, PLACEMENT, BACKFILLING, GRADING AND TESTING OF WATER MAIN AND APPURTENANCES. BARRICADES, SIGNS, FLAGS AND LIGHTS SHALL BE USED IN ACCORDANCE WITH LOCAL AND STATE TRAFFIC AND SAFETY LAWS REQUIRED FOR THE PROJECT.
9. IF ROCK IS ENCOUNTERED, BLASTING WILL NOT BE PERMITTED.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

1. MAINTAIN AND PROTECT TRAFFIC ON ALL OF THE EXISTING ROADWAYS WHERE WORK IS BEING PERFORMED UNDER THIS CONTRACT. TRAFFIC SHALL BE MAINTAINED AND PROTECTED FOR THE DURATION OF THE CONTRACT, INCLUDING THE PERIODS WHEN CONSTRUCTION OPERATIONS ARE NOT IN PROGRESS. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE NYSDOT SPECIFICATIONS FOR MAINTENANCE AND PROTECTION OF TRAFFIC.
2. ALL SIGNS SHALL BE IN PLACE PRIOR TO COMMENCING WORK ON THE PROJECT. SIGNS SHALL BE COVERED AND UNCOVERED AS NECESSARY OR AS ORDERED BY THE ENGINEER TO PREVENT CONFLICTING WARNINGS. ALSO, ONLY THE SIGNS THAT RELATE TO THE WORK AREAS IN PROGRESS SHALL BE IN PLACE.
3. COMPETENT FLAGGERS SHALL BE USED WHEN CONSTRUCTION OPERATIONS ARE IN POTENTIAL CONFLICT WITH PUBLIC TRAFFIC AND/OR AS DIRECTED BY THE ENGINEER.
4. MATERIALS, EQUIPMENT, AND VEHICLES SHALL NOT BE STORED ON ANY ROADWAY WITHOUT PRIOR WRITTEN APPROVAL FROM THE AUTHORITY HAVING JURISDICTION OVER THE ROAD.
5. SAFE AND CONTINUOUS THROUGH TRAFFIC AND INGRESS AND EGRESS FOR ADJACENT OWNER DRIVEWAYS, SERVICE ROADS AND PUBLIC STREETS SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION.
6. THERE SHALL BE NO DISRUPTION TO MAIL DELIVERY THROUGHOUT CONSTRUCTION. COORDINATION WITH PROPERTY OWNERS AND/OR THE POSTAL SERVICE MAY BE REQUIRED.
7. THERE SHALL BE NO DISRUPTION TO SCHOOL BUS ACCESS THROUGHOUT CONSTRUCTION. COORDINATION WITH BUS OPERATORS MAY BE REQUIRED.

RESTORATION NOTES:

1. ALL DISTURBED AREAS SHALL BE RESTORED TO MATCH PRE EXISTING CONDITIONS.
2. RESTORE ASPHALT AND CONCRETE PAVEMENT AREAS PER SECTIONS PROVIDED ON THESE PLANS. ASPHALT COURSE DEPTHS SHOWN ON THE PLANS ARE COMPACTED DEPTHS.
3. RESTORE LAWN AREAS WITH 4" TOPSOIL, SEED, AND MULCH.
4. RESTORE OTHER LANDSCAPED AREAS WITH A MINIMUM 4" TOPSOIL, FABRIC, AND MULCH TO MATCH PRE EXISTING CONDITIONS.
5. RESTORE ALL DISTURBED UTILITIES TO MATCH PRE EXISTING CONDITIONS. PAYMENT WILL NOT BE MADE FOR UTILITY RESTORATION/REPLACEMENT DUE TO CONTRACTOR NEGLIGENCE.
6. PROVIDE NEW PAVEMENT STRIPING WITHIN DISTURBED AREAS TO MATCH EXISTING STRIPING LAYOUT AND COLOR(S). PAVEMENT STRIPING SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATIONS.
7. THE CONTRACTOR SHALL TEMPORARILY RESTORE ALL EXCAVATIONS IN TRAVELED AREAS INCLUDING ROADS, DRIVEWAYS, SIDEWALKS, AND PARKING AREAS WITH A MINIMUM 2" OF ASPHALT PAVEMENT OR (COLD-PATCH) IF MORE THAN ONE WEEK WILL PASS BETWEEN BACKFILLING AND FINAL RESTORATION.
8. PROTECT TREES AND OTHER PLANTS FROM DAMAGE UNLESS THEIR REMOVAL IS REQUIRED FOR CONSTRUCTION. NO TREE SHALL BE REMOVED THAT IS NOT IMPACTED BY THE WORK.

WATER MAIN GENERAL NOTES:

1. THE APPROXIMATE LOCATION OF THE PROPOSED WATER MAIN IS INDICATED ON THE PLANS, HOWEVER THE ACTUAL LOCATION WILL BE GOVERNED BY THE ACTUAL LOCATION OF THE UNDERGROUND UTILITIES OR OTHER CONTROLLING FACTORS AS DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
2. WATER TIGHT CONDITIONS MAY NOT EXIST WHEN EXISTING VALVES ARE CLOSED.
3. THE USE OF EXISTING FIRE HYDRANTS FOR ANY REASON IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER OR VILLAGE OF OSSINING. THIS INCLUDES NEWLY INSTALLED FIRE HYDRANTS THAT HAVE BEEN PLACED INTO SERVICE.
4. COORDINATE WITH VILLAGE OF OSSINING WATER DEPARTMENT FOR THE CONNECTION TO THE VILLAGE WATER MAIN. CONTRACTOR IS RESPONSIBLE FOR PAYING ALL PERMIT FEES ASSOCIATED WITH THE CONNECTION.
5. HAVE ALL EQUIPMENT, MANPOWER, AND MATERIALS REQUIRED ON SITE AND READY FOR USE PRIOR TO COMMENCING ANY SHUT-DOWN OR REMOVING ANY EXISTING FACILITIES FROM SERVICE. NOTIFY ALL AFFECTED CUSTOMERS OF ANY SHUTDOWN AT LEAST 48 HOURS IN ADVANCE. SHUTDOWNS SHALL BE LIMITED TO 4 CONSECUTIVE HOURS. IT MAY BE NECESSARY TO SCHEDULE SHUTDOWNS AT NIGHT, WEEKENDS, OR OTHER OFF HOURS SO AS TO NOT AFFECT SCHOOLS, BUSINESSES, OR OTHER CUSTOMERS; AS DETERMINED BY THE VILLAGE OF OSSINING. SHUTDOWN REQUESTS SHALL BE SUBMITTED TO THE VILLAGE OF OSSINING A MINIMUM OF 3 BUSINESS DAYS IN ADVANCE.
6. WHEN INSTALLING HYDRANTS OR BLOW-OFFS, SHOULD GROUND WATER BE ENCOUNTERED WITHIN 7 FEET OF THE FINISH GRADE, WEEP HOLES (DRAINS) SHALL BE PLUGGED. WHEN DRAINS ARE PLUGGED, THE BARRELS MUST BE PUMPED OUT AFTER USE AND THESE HYDRANTS SHOULD BE MARKED/LABELED TO INDICATE AS SUCH.
7. EXPOSE EXISTING UTILITIES, SERVICES, SEWERS AND LATERALS AHEAD OF PIPE LAYING OR OTHER WORK OPERATIONS SO THAT IF MINOR ADJUSTMENTS MUST BE MADE IN ELEVATION AND/OR ALIGNMENT, DUE TO INTERFERENCE, THESE CHANGES CAN BE MADE IN ADVANCE OF THE WORK. EXISTING WATER SERVICES WERE LOCATED WHERE POSSIBLE BUT IT SHALL NOT BE ASSUMED THAT THEY ARE ALL SHOWN. EXISTING SANITARY SEWER LATERALS WERE NOT LOCATED.
8. MINIMUM COVER ON ALL NEW WATER MAIN SHALL BE FIVE (5) FEET, MEASURED FROM FINISH GROUND SURFACE EXCEPT AS OTHERWISE NOTED. WHEN ACHIEVING THE MINIMUM OF COVER IS IMPOSSIBLE, PREINSULATED PIPING SHALL BE USED. UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS, THE INSTALLATION OF WATER MAIN WITH LESS THAN THE MINIMUM OVER SHALL ONLY BE DONE WITH PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
9. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND STORM AND SANITARY SEWER LINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER THE SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL OR CONCRETE) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF THE JOINTS AND SETTLING TO THE SEWER ON THE WATER MAIN. WHEN 18" VERTICAL SEPARATION IS IMPOSSIBLE AT VERTICAL CROSSINGS, THE WATER MAIN SHALL BE FULLY ENCASED IN CONCRETE AS SHOWN IN THE DETAILS.
10. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS AND STORM AND SANITARY SEWER PIPE (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS.
11. THE INSTALLATION OF 90 DEGREE BENDS IN THE WATER MAIN IS NOT PERMITTED, UNLESS APPROVED BY THE ENGINEER.
12. ALL PIPE JOINTS SHALL BE RESTRAINED WITH FIELD-LOK GASKETS OR APPROVED EQUAL.
13. ALL FITTINGS SHALL BE RESTRAINED WITH CONCRETE THRUST BLOCKS AND MEGALUGS, OR APPROVED EQUAL. ALL THRUST BLOCKS SHALL BE INSTALLED AGAINST UNDISTURBED SOIL.
14. PROVIDE SHEETING AND SHORING (AS REQUIRED DURING CONSTRUCTION) TO MAINTAIN SAFE WORKING CONDITIONS, AND TO PROTECT NEW AND EXISTING WORK.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF EXCAVATED MATERIAL FROM THE SITE.
16. IF MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION THAT ARE SUSPECTED OF BEING CONTAMINATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE NYSDEC FOR DIRECTION REGARDING TESTING, SEPARATION, CONTAINMENT, AND DISPOSAL PROCEDURES.
17. IF MATERIAL AT THE DESIGN GRADE IS UNSUITABLE AS DETERMINED BY THE ENGINEER, THE CONTRACTOR, WHEN ORDERED IN WRITING, SHALL EXCAVATE ADDITIONAL MATERIAL TO THE DEPTH NECESSARY AND SHALL BACKFILL TO THE PROPOSED GRADE WITH SELECT GRANULAR MATERIAL.
18. A 30 INCH MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN OUTSIDE EDGE OF UTILITY POLES AND OUTSIDE EDGE OF WATER MAIN. PROVIDE SUPPORT FOR UTILITY POLES, WHERE NECESSARY. MAKE ALL NECESSARY ARRANGEMENTS WITH THE UTILITY COMPANY.
19. THE CONTRACTOR SHALL BE PRESENT AND ASSIST IN A FINAL WALK THROUGH INSPECTION. THE CONTRACTOR SHALL PROVIDE SUFFICIENT PERSONNEL AND EQUIPMENT TO DEMONSTRATE TO THE ENGINEER THAT ALL VALVES AND FIRE HYDRANTS OPERATE AS REQUIRED.
20. IN ACCORDANCE WITH THE JANUARY 2011 REDUCTION OF LEAD IN DRINKING WATER ACT, PIPES AND FITTINGS CONTAINING MORE THAN 0.25% LEAD SHALL NOT BE USED.

STANDARD NOTES FOR WATER SYSTEMS:

THE DESIGN, CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE:

"RECOMMENDED STANDARDS FOR WATER WORKS (TEN STATES)"
"RURAL WATER SUPPLY, NEW YORK STATE DEPARTMENT OF HEALTH"
"NEW YORK STATE DEPARTMENT OF HEALTH AND WESTCHESTER COUNTY DEPARTMENT OF HEALTH POLICIES, PROCEDURES AND STANDARDS"
"COUNTY DEPARTMENT OF HEALTH CERTIFICATE OF APPROVAL LETTER"

THIS PLAN IS APPROVED AS MEETING THE APPROPRIATE AND APPLIED TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES FOR ARRANGEMENT OF WATER DISTRIBUTION FACILITIES.

UPON COMPLETION OF THE FACILITIES, THE FINISHED WORKS SHALL BE INSPECTED, TESTED, AND CERTIFIED COMPLETE TO THE COUNTY HEALTH DEPARTMENT BY NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SUPERVISING CONSTRUCTION. NO PART OF THE FACILITIES SHALL BE PLACED INTO SERVICE UNTIL ACCEPTED BY THE COUNTY HEALTH DEPARTMENT.

APPROVAL OF ANY PLAN(S) OR AMENDMENT THERETO SHALL BE VALID FOR A PERIOD OF FIVE (5) YEARS FROM THE DATE OF APPROVAL. FOLLOWING THE EXPIRATION OF SAID APPROVAL, THE PLAN(S) SHALL BE RESUBMITTED TO THE COMMISSIONER OF HEALTH FOR CONSIDERATION FOR RE-APPROVAL. RE-SUBMISSION OR REVISED SUBMISSION OF PLANS AND/OR ASSOCIATED DOCUMENTS SHALL BE SUBJECTED TO COMPLIANCE WITH TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES IN EFFECT AT THE TIME OF THE RE-SUBMISSION.

WATER MAIN TESTING AND DISINFECTION NOTES:

1. WATER FOR TESTING AND FLUSHING SHALL BE OBTAINED FROM EXISTING WATER SYSTEM. ARRANGEMENTS SHALL BE MADE WITH THE WATER DEPARTMENT FOR PAYMENT OF WATER USED.
2. FLUSH MAINS AND SERVICES BEFORE TESTING. MINIMUM FLUSHING VELOCITY SHALL BE 2.5 FEET PER SECOND.
3. BEFORE TESTING, SECTIONS ADJACENT TO THE TEST SECTION SHALL BE FILLED WITH WATER. THE CONTRACTOR SHALL FURNISH ALL WATER, EQUIPMENT, CONNECTIONS, PIPING, METERS, MEASURING DEVICES, PUMPS, AND TEMPORARY ENCLOSURES NECESSARY TO PERFORM THE REQUIRED TESTS.
4. TESTING SHALL MEET THE MINIMUM REQUIREMENTS OF AWWA C-600 SECTION 4, EXCEPT WHERE MORE RIGID REQUIREMENTS ARE ESTABLISHED BY THE SPECIFICATIONS. BEFORE APPLYING TEST PRESSURE, ALL AIR SHALL BE EXPELLED FROM THE PIPE.
5. ANY PUMP, PIPE, CONNECTIONS, GAUGES, AND MEASURING DEVICES SHALL BE CALIBRATED TO THE SATISFACTION OF THE ENGINEER.
6. THE WATER MAIN AND APPURTENANCES SHALL BE PRESSURE/LEAKAGE TESTED IN A MINIMUM TWO SECTIONS (LESS THAN OR EQUAL TO 1,200 FEET). EACH SECTION SHALL BE TESTED IN ACCORDANCE WITH AWWA C-600, LATEST EDITION AND PROJECT SPECIFICATIONS. RESULTS SHALL BE INCLUDED AS PART OF THE NYSPE CERTIFICATION OF COMPLETION TO THE COUNTY DEPARTMENT OF HEALTH.
7. ALL WATER MAINS AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C 651 DISINFECTING WATER MAINS AND THE REQUIREMENTS OF NYS DEPARTMENT OF HEALTH, USING THE CONTINUOUS FEED METHOD. THE REQUIREMENTS OF NYS DEPARTMENT OF HEALTH SHALL GOVERN WHEN THERE IS A CONFLICT. USE 50 PPM INITIAL CHLORINE DOSE. DISINFECTANT SHALL REMAIN IN THE SYSTEM FOR A PERIOD OF 24 HOURS AFTER WHICH THE RESIDUAL SHALL BE AT LEAST 25 PPM. UPON COMPLETION OF DISINFECTION, THE WATER MAIN SHALL BE TESTED FOR TOTAL COLIFORM BACTERIA, COLOR AND TURBIDITY AT A MINIMUM TWO (2) LOCATIONS. RESULTS SHALL BE INCLUDED AS PART OF THE NYSPE CERTIFICATION OF COMPLETION TO COUNTY DEPARTMENT OF HEALTH. FOLLOWING DISINFECTION, ALL TREATED WATER SHALL BE THOROUGHLY FLUSHED FROM THE MAIN.
8. WATER USED FOR DISINFECTING THE WATER MAINS, IF DISCHARGED TO THE STREAMS, MUST HAVE A CHLORINE RESIDUAL NOT EXCEEDING 0.05 mg/l AT THE POINT OF DISCHARGE. THE CONTRACTOR IS RESPONSIBLE TO ATTAIN THIS CHLORINE RESIDUAL LEVEL BY WHATEVER MEANS NECESSARY, AT NO COST TO THE OWNER.
9. THE INTERIORS OF ALL APPURTENANCES AND SECTIONS OF WATER MAIN THAT CANNOT NORMALLY BE DISINFECTED SHALL BE SWABBED BY THE CONTRACTOR, TO THE SATISFACTION OF THE ENGINEER, WITH A CONCENTRATED CHLORINE SOLUTION CONTAINING NO LESS THAN 200 PPM OF FREE CHLORINE. THE CONTRACTOR SHALL ALSO DISINFECT ALL EXISTING WATER LINES AND APPURTENANCES WHICH WERE BROKEN, DAMAGED, CONTAMINATED, OR SUSPECTED OF BEING CONTAMINATED AS A RESULT OF WORK DONE WITH THIS PROJECT.
10. WATER SAMPLES SHALL BE COLLECTED BY THE CONTRACTOR AND ANALYZED BY A NEW YORK STATE DEPARTMENT OF HEALTH APPROVED TESTING LABORATORY FOR BACTERIOLOGICAL CONTENT. A MINIMUM OF ONE SAMPLE PER 1000 FEET OF NEW WATER MAIN SHALL BE COLLECTED AND ANALYZED. LOCATION OF SAMPLING TAP AS APPROVED BY THE ENGINEER. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING DEVICES. THE CONTRACTOR SHALL COORDINATE WITH THE GOVERNING HEALTH DEPARTMENT TO OBTAIN THESE SAMPLES. THE WORK WILL NOT BE ACCEPTED UNTIL A REPORT IS SUBMITTED TO THE ENGINEER, SHOWING THAT THE WATER SAMPLE IS SATISFACTORY AND THE SYSTEM IS READY FOR USE. THE WATER MAIN SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE GOVERNING DEPARTMENT OF HEALTH.

CONCRETE WASHOUT FACILITY NOTES:

CONDITIONS WHERE PRACTICE APPLIES:

WASHOUT FACILITIES SHALL BE PROVIDED FOR EVERY PROJECT WHERE CONCRETE WILL BE POURED OR OTHERWISE FORMED ON THE SITE. THIS FACILITY WILL RECEIVE HIGHLY ALKALINE WASH WATER FROM THE CLEANING OF CHUTES, MIXERS, HOPPERS, VIBRATORS, PLACING EQUIPMENT, TROWELS, AND SCREEDS. UNDER NO CIRCUMSTANCES WILL WASH WATER FROM THESE OPERATIONS BE ALLOWED TO INFILTRATE INTO THE SOIL OR ENTER SURFACE WATERS.

DESIGN CAPACITY:

THE WASHOUT FACILITY SHOULD BE SIZED TO CONTAIN SOLIDS, WASH WATER, AND RAINFALL AND SIZED TO ALLOW FOR THE EVAPORATION OF THE WASH WATER AND RAINFALL. WASH WATER SHALL BE ESTIMATED AT 7 GALLONS PER CHUTE AND 50 GALLONS PER HOPPER OF THE CONCRETE PUMP TRUCK AND/OR DISCHARGING DRUM. THE MINIMUM SIZE SHALL BE 8 FEET BY 8 FEET AT THE BOTTOM AND 2 FEET IF EXCAVATED, THE SIDE SLOPES SHALL BE 2 HORIZONTAL TO 1 VERTICAL.

LOCATION:

LOCATE THE FACILITY A MINIMUM OF 100 FEET FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS AND OTHER SURFACE WATERS. PREVENT SURFACE WATER FROM ENTERING THE STRUCTURE EXCEPT FOR THE ACCESS ROAD. PROVIDE APPROPRIATE ACCESS WITH A GRAVEL ACCESS ROAD SLOPED DOWN TO THE STRUCTURE. SIGNS SHALL BE PLACED TO DIRECT DRIVERS TO THE FACILITY AFTER THEIR LOAD IS DISCHARGED.

LINER:

ALL WASHOUT FACILITIES WILL BE LINED TO PREVENT LEACHING OF LIQUIDS INTO THE GROUND. THE LINER SHALL BE PLASTIC SHEETING WITH A MINIMUM THICKNESS OF 10 MILS WITH NO HOLES OR TEARS, AND ANCHORED BEYOND THE TOP OF THE PIT WITH AN EARTHEN BERM, SAND BAGS, STONE, OR OTHER STRUCTURAL APPURTENANCE EXCEPT AT THE ACCESS POINT. IF PRE-FABRICATED WASHOUTS ARE USED THEY MUST ENSURE THE CAPTURE AND CONTAINMENT OF THE CONCRETE WASH AND BE SIZED BASED ON THE EXPECTED FREQUENCY OF CONCRETE POURS. THEY SHALL BE SITED AS NOTED IN THE LOCATION CRITERIA.

MAINTENANCE:

1. ALL CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY. DAMAGED OR LEAKING FACILITIES SHALL BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. EXCESS RAINWATER THAT HAS ACCUMULATED OVER HARDENED CONCRETE SHOULD BE PUMPED TO A STABILIZED AREA, SUCH AS A GRASS FILTER STRIP.
2. ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE STRUCTURE IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO A CONTAINMENT VESSEL AND PROPERLY DISPOSED OF OFF SITE.
3. DISPOSE OF THE HARDENED MATERIAL OFF-SITE IN A CONSTRUCTION/DEMOLITION LANDFILL. ON-SITE DISPOSAL MAY BE ALLOWED IF THIS HAS BEEN APPROVED AND ACCEPTED AS PART OF THE PROJECTS SWPPP. IN THAT CASE, THE MATERIAL SHOULD BE RECYCLED AS SPECIFIED, OR BURIED AND COVERED WITH A MINIMUM OF 2 FEET OF CLEAN COMPACTED EARTHFILL THAT IS PERMANENTLY STABILIZED TO PREVENT EROSION.
4. THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.
5. INSPECT THE PROJECT SITE FREQUENTLY TO ENSURE THAT NO CONCRETE DISCHARGES ARE TAKING PLACE IN NON-DESIGNATED AREAS.

EROSION CONTROL NOTES

1. SEDIMENT FROM THE SITE SHALL BE PREVENTED FROM DISCHARGING TO ANY SURFACE WATER OR STORMWATER PIPING SYSTEM BY THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
2. CONTRACTOR SHALL APPOINT A PERSON TO BE RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES. THIS PERSON SHALL BE TRAINED IN ACCORDANCE WITH NYSDEC REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL ACTIVITIES.
3. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE ACCORDANCE WITH DETAIL. COORDINATE LOCATION WITH OWNER PRIOR TO ANY ON-SITE ACTIVITIES.
4. PROVIDE AND MAINTAIN INLET PROTECTION ON ALL EXISTING AND NEW CATCH BASINS, MANHOLES AND INLETS UNTIL DRAINAGE AREAS ARE STABILIZED.
5. PROVIDE AND MAINTAIN SILT FENCE AROUND PERIMETER OF ALL WORK AREAS, EXCAVATED SOIL STOCKPILES, AND BETWEEN DISTURBED AREAS AND DRAINAGE WAYS OR WATER BODIES. COORDINATE LOCATIONS WITH OWNER AS WORK PROGRESSES AND AREAS ARE STABILIZED. SILT FENCE TO BE INSTALLED AND ENTRENCHED (MIN 6" BELOW GROUND ELEVATION). SILT SOCK MAY USED ON PAVED OR GRAVEL AREAS.
6. ALL EXPOSED SUBGRADE AREAS INTENDED FOR PAVEMENT SHALL BE STABILIZED WITH SUBBASE STONE WITHIN THREE (3) DAYS OF EXCAVATION / PAVEMENT REMOVALS.
7. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBANCE ACTIVITIES, INCLUDING GRADING OR FILLING OPERATIONS AND INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
8. CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED.
9. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE MAINTAINED AT ALL TIMES UNTIL CONSTRUCTION IS COMPLETED AND THE WORK AREAS ARE STABILIZED.
10. CONSTRUCT TEMPORARY SILT FENCING ALONG BOTTOM EDGE OF ALL SLOPES AND/OR AS SHOWN, AS DESIGNATED, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
11. CONSTRUCT TEMPORARY STONE CHECK DAMS ALONG DITCH LINES AS SPECIFIED AND/OR AS SHOWN, AS DESIGNATED, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
12. ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSPECTED AND MAINTAINED WEEKLY. CONTRACTOR SHALL KEEP ON FILE A RECORD OF THE REQUIRED INSPECTION REPORTS.
13. ALL DISTURBED AREAS,EXPOSED SLOPES AND SLOPES SHALL BE VEGETATED (TEMPORARY SEEDED) WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
14. JUTE MESH OR OTHER STABILIZATION FABRIC SHALL BE APPLIED TO ANY SLOPES SLOPES GREATER THAN 1V:4H IMMEDIATELY UPON COMPLETION OF GRADING ACTIVITIES. MESH OR OTHER MEASURE SHALL BE ADEQUATELY SECURED.
15. TEMPORARY SEEDING SHALL BE SEEDED RYE GRASS AT A RATE OF FIVE (5) LBS PER 1,000 SQUARE FEET OF AREA. CONTINUALLY REAPPLY TEMPORARY SEEDING AT FIRST SIGN OF EROSION OR DETERIORATION OF THE SURFACE GRADE.
16. PERMANENT GROUND COVER SHALL BE INSTALLED ON ALL DISTURBED AREAS WITHIN 5 WORKING DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
17. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED COMPLETELY UPON FINAL STABILIZATION. COORDINATE TIMING OF REMOVAL WITH OWNER'S REPRESENTATIVE.
18. CONTRACTOR SHALL FLUSH CLEAN ALL EXISTING AND NEW STORM PIPING WITHIN PROJECT LIMITS AFTER FINAL STABILIZATION IS COMPLETE.
19. WALKWAYS TO BE KEPT FREE AND CLEAR OR DEBRIS, REFUSE AND SILT AT ALL TIMES.
20. DEBRIS, VEGETATION AND OTHER SPOILS REMOVED AS PART OF THE CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF AT UPLAND LOCATIONS ABOVE THE REACH OF HIGH WATER. SEDIMENT DISPOSSAL IN WATER BODY, WETLANDS, FLOODWAYS OR THE 100-YEAR FLOODPLAIN IS STRICTLY PROHIBITED.
21. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO ANY WETLANDS OR WATERS OF NEW YORK STATE, NOR SHALL WASHINGS FROM READY-MIX CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLAND OR WATERS. ONLY WATERTIGHT OR WATERPROOF FORMS SHALL BE USED. WET CONCRETE SHALL NOT BE POURED TO DISPLACE WATER WITHIN THE FORMS.
22. CONTRACTOR TO CONSTRUCT A TEMPORARY CONCRETE WASHOUT AREA ADJACENT TO EACH WORK AREA ENTRANCE.
23. THE CONTROL OF DUST ORIGINATING FROM THE CONSTRUCTION OPERATIONS IS CONSIDERED A CRITICAL RESPONSIBILITY OF THE CONTRACTOR. THE OWNER'S REPRESENTATIVE WILL BE THE FINAL JUDGE OF THE ADEQUACY OF THE CONTRACTOR'S DUST CONTROL EFFORTS. WORK MAY BE SUSPENDED BY THE OWNER'S REPRESENTATIVE UNTIL ADEQUATE DUST CONTROL IS ATTAINED.
24. CONTRACTOR SHALL NOT HAVE MORE THAN FIVE (5) ACRES OF SOIL DISTURBANCE OR UNSTABILIZED AREAS AT ONE TIME.

CPLteam.com
ARCHITECTURE = ENGINEERING = PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT
SED# 66-14-01-03-0-001-022

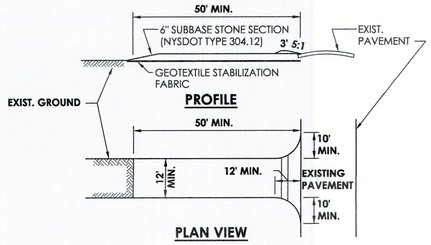
DATE	DRAWN	CHECKED
12/18/2020	RHW	RHW

SCALE n.a.

SHEET TITLE
SITE NOTES

PROJECT NUMBER
14428.11

BES
C300
DRAWING NUMBER

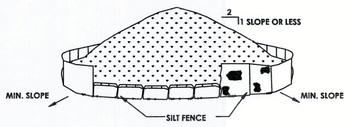


CONSTRUCTION SPECIFICATIONS

1. SUBBASE STONE, OR RECLAIMED / RECYCLED CONCRETE EQUIVALENT IS PERMITTED
2. LENGTH - NOT LESS THAN 50 FEET
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NO LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE/DRIVEWAY

N.T.S.



SPECIFICATION AND INSTALLATION NOTES:

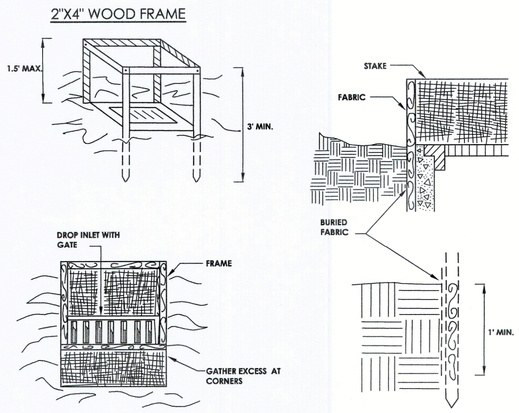
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES AND STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS ON INSTALLATION OF SILT FENCE.

INSPECTION & MAINTENANCE NOTES:

1. SOIL AND TOPSOIL STOCKPILE SHOULD BE SEEDED IF THEY ARE TO REMAIN DORMANT FOR 30 DAYS.
2. SEE SILT FENCE DETAIL FOR MAINTENANCE AND INSPECTIONS.

SOIL STOCKPILE

N.T.S.



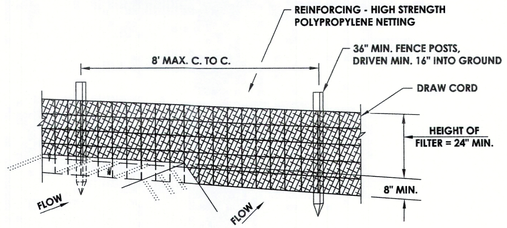
CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

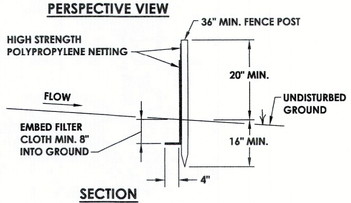
*MAXIMUM DRAINAGE AREA 1 ACRE

FILTER FABRIC DROP INLET PROTECTION

N.T.S



PERSPECTIVE VIEW



SECTION

CONSTRUCTION NOTES FOR FABICATED SILT FENCE

1. SILT FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO POLYPROPYLENE NETTING WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. NETTING MAY BE INCORPORATED INTO FILTER CLOTH.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD.

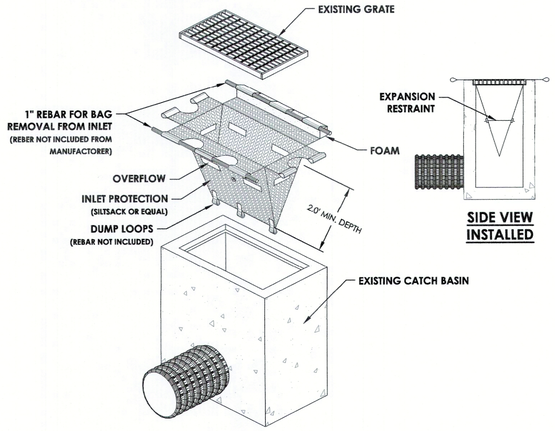
FENCE: HIGH STRENGTH POLYPROPYLENE NETTING

FILTER CLOTH: MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL

PREFABICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

SILT FENCE DETAIL

N.T.S.

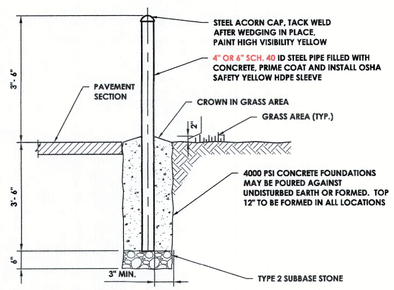


SIDE VIEW INSTALLED

FOR USE IN PAVEMENT AREAS

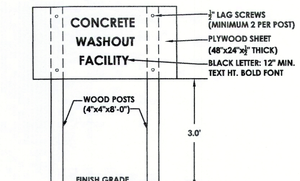
INLET PROTECTION DETAIL - PAVED AREAS

N.T.S.

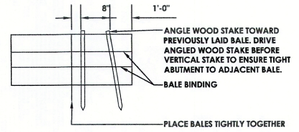


BOLLARD

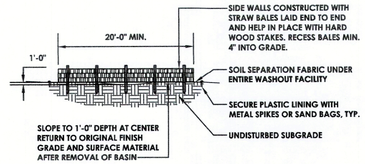
N.T.S.



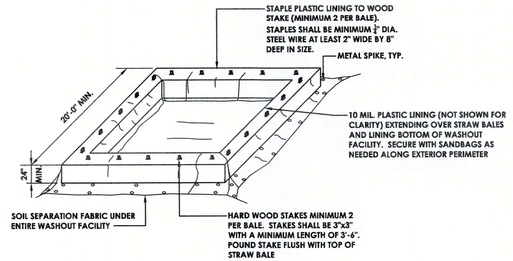
SIGN



BALE PROFILE



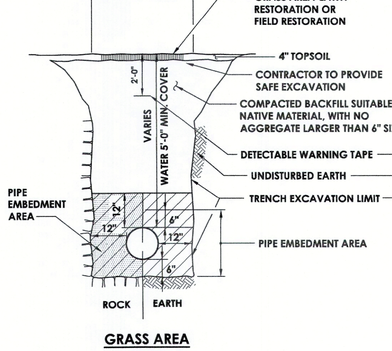
PROFILE OF FACILITY



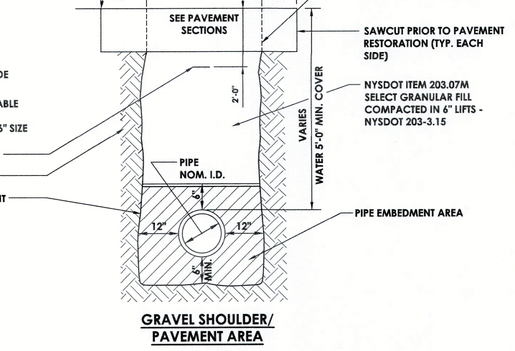
ISOMETRIC VIEW OF FACILITY

CONCRETE TRUCK WASHOUT

N.T.S.



GRASS AREA



GRAVEL SHOULDER/ PAVEMENT AREA

PIPE EMBEDMENT REQUIREMENTS

	PAVEMENT & SHOULDER AREAS	LAWN & FIELD AREAS
WATER MAIN DUCTILE IRON PIPE	CLEAN SAND OR STONE DUST NYSDOT SPECIFICATION SECTION 703-07	CLEAN SAND OR STONE DUST NYSDOT SPECIFICATION SECTION 703-07
PVC PIPE	CLEAN SAND OR STONE DUST NYSDOT SPECIFICATION SECTION 703-07	CLEAN SAND OR STONE DUST NYSDOT SPECIFICATION SECTION 703-07
SANITARY SEWER PVC PIPE	NYSDOT #1A SCREENED GRAVEL OR CONCRETE SAND NYSDOT SPECIFICATION SECTION 703-07	NYSDOT #1A SCREENED GRAVEL OR CONCRETE SAND NYSDOT SPECIFICATION SECTION 703-07
STORM SEWER ALL PIPE MATERIALS	NYSDOT #2 COARSE AGGREGATE	NYSDOT #2 COARSE AGGREGATE

* IN ROCK AREAS USE NYSDOT ITEM 203.07M SELECT GRANULAR FILL

** WATER MAIN PLACED 5 FEET OR LESS FROM CENTERLINE OF WATER MAIN TO EDGE OF ASPHALT PAVEMENT (EITHER ROAD OR SHOULDER) SHALL MEET THE BACKFILL REQUIREMENTS OF GRAVEL SHOULDER/PAVEMENT AREA REPLACEMENT DETAILS.

NOTES

1. NYSDOT ITEM NO. 418.7603, ASPHALT PAVEMENT JOINT SEALANT, SHALL BE APPLIED TO ALL JOINTS IN THE TOP COURSE OF ASPHALT.
2. CONTRACTOR SHALL SHEET & BRACE TRENCH PER OSHA STANDARDS WHEN INSUFFICIENT SPACE IS AVAILABLE TO SIDE SLOPE TRENCH PER OSHA STANDARDS. UNLESS OTHERWISE APPROVED, SHEETING AND BRACING MUST BE REMOVED AS BACKFILL PROGRESSES.

PIPE TRENCH DETAIL

N.T.S.

CPLteam.com
ARCHITECTURE ▪ ENGINEERING ▪ PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT
SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/2020	RHW	RHW

SCALE as noted

SHEET TITLE
SITE DETAILS 1

PROJECT NUMBER
14428.11

BES
C301
DRAWING NUMBER

CONDITION	SCHEMATIC	REQUIREMENTS
I WATER LINE ABOVE SEWER LINE	WL MORE THAN 18" SL	A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B) BACKFILL WITH COMPACTED CRUSHER RUN STONE.
II WATER LINE ABOVE SEWER LINE	WL 18" MIN. SL	A. WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B) WHEN BOTH WATER LINE AND SEWER LINE ARE NEW, SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING. WHEN ONE LINE IS EXISTING, SLEEVE PIPE BEING INSTALLED WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING. C) BACKFILL WITH COMPACTED CRUSHER RUN STONE.
III SEWER LINE ABOVE WATER LINE	SL 18" MIN. WL	A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B) SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING. C) PROVIDE CRADLE OF CONCRETE OR CRUSHER RUN STONE (SEE TRENCH DETAIL BELOW) FOR WATER LINE AND SEWER LINE FOR 10 FT. EACH SIDE OF CROSSING.

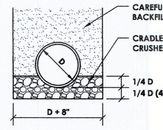
NOTES

WL (WATER LINE)

SL (SEWER LINE)

D (OUTSIDE DIAMETER OF PIPE)

IN NO CASE SHALL PIPES BE CLOSER THAN 18" APART. DISTANCES ARE MEASURED BETWEEN OUTSIDES OF PIPE.



WATERMAIN/SEWER CROSSING DETAIL

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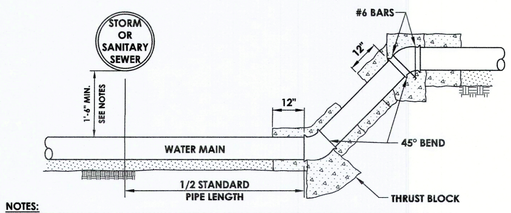
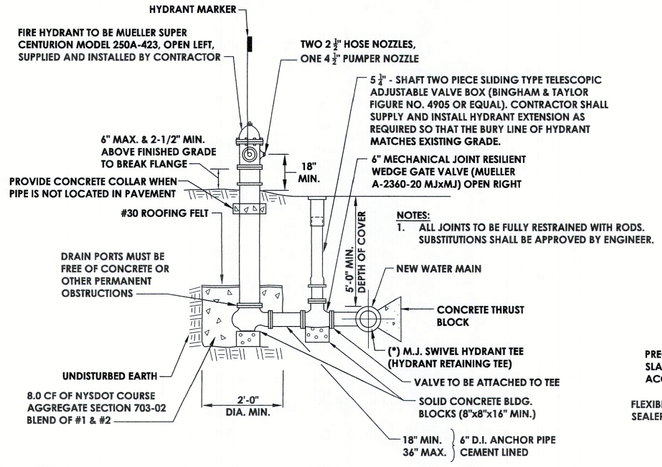


NOTES:
1. THERE SHALL BE 1'-6" MINIMUM VERTICAL SEPARATION BETWEEN SEWER AND WATER MAINS.
2. WHEN THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THE ABOVE REQUIREMENTS, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS REQUIRED SEPARATION OR FULLY ENCASED WITH CONCRETE FOR A DISTANCE OF AT LEAST TEN (10) FEET ON EACH SIDE OF THE SEWER.
3. ONE FULL, UNCUT LENGTH OF WATER MAIN SHALL BE CENTERED ON THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR AWAY FROM THE SEWER AS POSSIBLE.
4. CONCRETE FOR ENCASEMENT SHALL BE MIN. 3,000 PSI WITH 5-7% AIR ENTRAINMENT.
5. CONCRETE ENCASEMENT SHALL PROVIDE FOR A MINIMUM 6" COVER ON ALL SIDES OF WATER MAIN.
6. THRUST RESTRAINT SHALL BE PROVIDED AT ALL BENDS.

WATER MAIN OFFSET

N.T.S.

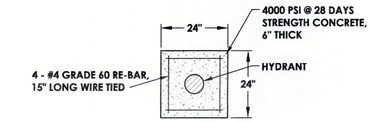


NOTE:
1. EXTERIOR OF HYDRANT ABOVE GROUND TO RECEIVE TWO FINISH COATS OF PAINT. COLOR OF FINAL ENAMEL COAT TO BE YELLOW AS PER TOWN OF OSSINING DPW. C.I. BARREL EXTERIOR BELOW GROUND TO BE ASPHALTUM COATED. BONNET, PUMPER NOZZLE AND HOSE NOZZLES TO BE PAINTED AS PER TOWN OF OSSINING DPW.
2. (*) SEE DRAWINGS FOR SIZES OF WATER MAINS.

NOTE (HYDRANT ASSEMBLIES):
1. THE CONTRACTOR SHALL VERIFY THAT THE WATER TABLE DEPTH IS A MINIMUM OF 7.0 FEET BELOW EXISTING GRADE. IF THE WATER TABLE IS FOUND TO BE LESS THAN 7.0 FEET BELOW EXISTING GRADE, ALL HYDRANT DRAIN HOLES SHALL BE ADEQUATELY SEALED IN ACCORDANCE WITH NYSDOH REQUIREMENTS WHEN HYDRANT DRAINS ARE SEALED. THE CONTRACTOR SHALL SO INFORM THE OWNER IN WRITING.
2. WHERE HYDRANT DRAINS ARE NOT PLUGGED, A GRAVEL DRAINAGE POCKET OR DRY WELL SHALL BE PROVIDED UNLESS THE NATURAL SOILS PROVIDE ADEQUATE DRAINAGE.
3. HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10 FEET OF SANITARY SEWERS, STORM SEWERS OR STORM DRAINS.
4. HYDRANT DRAINS WHERE ALLOWED, MUST BE ABOVE SEASONAL GROUNDWATER TABLE.

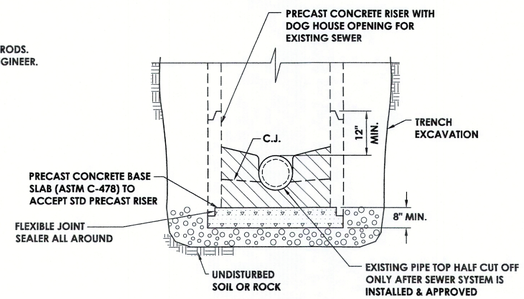
NEW FIRE HYDRANT ASSEMBLY

N.T.S.



CONC. HYDRANT COLLAR DETAIL

N.T.S.

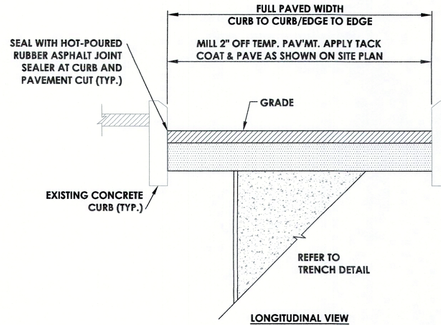


PROVIDE TEMPORARY SUPPORT FOR LINE SEWER UNTIL BENCH IS POURED. GROUT (NON-SHRINK) VOID AROUND EXISTING SEWER. PROVIDE 1 FT. THICK CONCRETE COLLAR AROUND EXTERIOR OF PIPE / M.H. WALL JUNCTION.

NOTE:
ALL OTHER ASPECTS OF THE MANHOLE CONSTRUCTION SHALL BE AS SHOWN OF THE OTHER MANHOLE DETAILS.

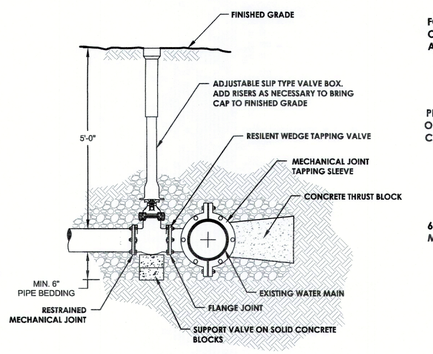
NEW MANHOLE BUILT OVER EXISTING STORM SEWER

N.T.S.



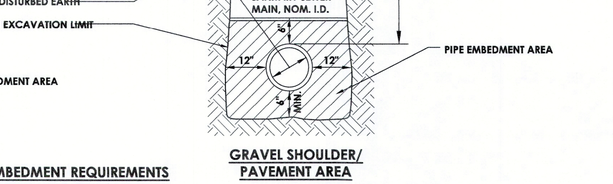
LONGITUDINAL VIEW

BEND	Min. Volume of Concrete For Block dimension D,E,F,G	MINIMUM ALLOWABLE DIMENSION FOR VERTICAL THRUST BLOCKS (IN FEET)							
		A	B	C	D	E	F	G	ROD LENGTH H
6",8" 11 1/4°	.35 Cu. Yd.	1.0	2.5	1.5	2.0	1.0	1.5	2.0	1.0
22 1/2°	.7 Cu. Yd.	1.5	2.5	1.5	2.5	1.0	2.0	2.5	1.5
45°	1.4 Cu. Yd.	1.5	2.5	2.0	4.0	1.5	2.0	3.0	1.5
90°	2.6 Cu. Yd.	2.0	2.5	2.0	4.0	2.0	3.0	3.5	2.5
10",12" 11 1/4°	.8 Cu. Yd.	1.5	3.0	1.5	2.5	1.5	2.0	2.5	1.5
22 1/2°	1.6 Cu. Yd.	1.5	3.0	2.0	4.0	2.0	2.0	3.0	1.5
45°	3.2 Cu. Yd.	2.0	3.0	2.0	5.0	2.0	3.0	3.5	2.5
90°	6.0 Cu. Yd.	2.0	3.0	2.5	5.5	2.5	3.5	3.5	3.0
16" 11 1/4°	2.59 Cu. Yd.	2.0	3.5	4.5	4.1	1.0	2.5	2.0	3.0
22 1/2°	6.8 Cu. Yd.	2.5	3.5	4.5	5.7	1.0	3.5	2.5	4.0
45°	10.0 Cu. Yd.	3.5	3.5	6.0	7.8	1.5	3.5	3.0	4.0
90°	12.0 Cu. Yd.	3.0	3.5	6.0	8.0	2.0	3.5	3.5	4.0
24" 11 1/4°	4.7 Cu. Yd.	2.5	4.0	4.5	5.0	1.5	3.5	2.5	3.0
22 1/2°	11.8 Cu. Yd.	2.5	4.0	5.0	6.8	2.0	3.5	3.0	4.0
45°	30.0 Cu. Yd.	4.0	4.0	6.0	9.4	2.0	3.5	3.5	4.0
90°	35.0 Cu. Yd.	4.0	4.0	6.0	10.0	2.5	4.5	3.5	5.0



TAPPING SADDLE

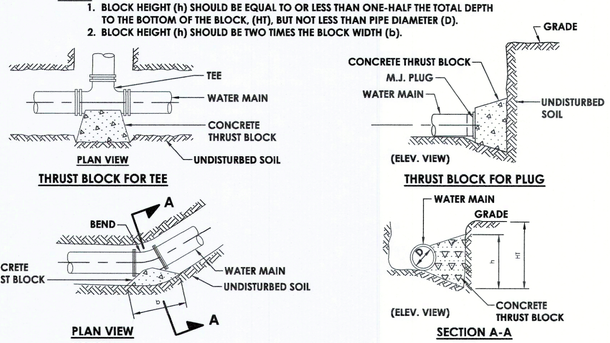
N.T.S.



* IF TRENCH WALL IS WITHIN 3 FT OF CURB, MILL REMAINING WEARING COURSE APPLY TACK COAT & PAVE AS SHOWN

WATER MAIN TRENCH / PERMANENT BITUMINOUS PAVEMENT REPLACEMENT DETAIL

N.T.S.



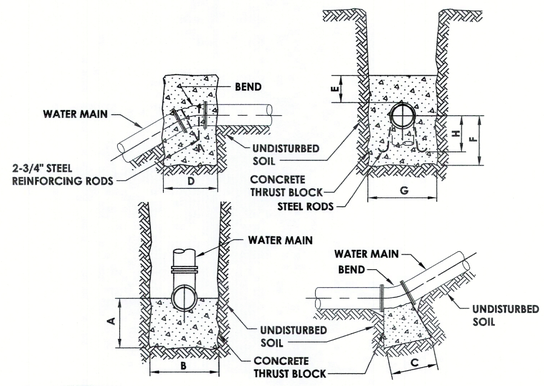
NOTES:
1. NO CONCRETE IS TO ENCOMPASS ANY BOLTS OR BELL ENDS WHERE POSSIBLE.
2. THRUST BLOCKS TO EXTEND TO UNDISTURBED SOIL (INCLUDING ALL PITS).
3. MEGALUGS TO BE USED IN ADDITION TO THRUST BLOCKS AT ALL FITTINGS.

TYPICAL HORIZONTAL THRUST BLOCK DETAIL

N.T.S.

MINIMUM AREA OF BEARING FACE OF CONCRETE THRUST BLOCK (IN SQ.FT.) BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL						
PIPE SIZE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	TEE/ TS&V	PLUG
4",6"	6	3	3	3	4	5
8"	10	6	3	3	8	8
12"	19	7	4	3	10	16
16"	24	13	7	3	19	19
18"	27	13	8	4	36	36
24"	28	15.7	8	4	47	47

NOTES:
1. BLOCK HEIGHT (h) SHOULD BE EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH TO THE BOTTOM OF THE BLOCK, (HT), BUT NOT LESS THAN PIPE DIAMETER (D).
2. BLOCK HEIGHT (h) SHOULD BE TWO TIMES THE BLOCK WIDTH (b).



NOTES:
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2. THRUST BLOCKS TO EXTEND TO UNDISTURBED SOIL (INCLUDING ALL PITS).
3. MEGALUGS TO BE USED IN ADDITION TO THRUST BLOCKS AT ALL FITTINGS.

TYPICAL VERTICAL THRUST BLOCK DETAILS

N.T.S.

GRASS AREA

GRAVEL SHOULDER/ PAVEMENT AREA

PIPE EMBEDMENT REQUIREMENTS

PAVEMENT & SHOULDER AREAS:
CONCRETE SAND NYSDOT SPECIFICATION SECTION 703-07

LAWN & FIELD AREAS:
NYSDOT #1A SCREENED GRAVEL OR CONCRETE SAND

SANITARY PIPE TRENCH DETAIL

N.T.S.

CPLteam.com
ARCHITECTURE ▪ ENGINEERING ▪ PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT

SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/2020	RHW	RHW

SCALE as noted

SHEET TITLE
SITE DETAILS 2

PROJECT NUMBER
14428.11

BES
C302
DRAWING NUMBER

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Date last plotted: 1/14/2021 3:50 PM
Date last acRPCsed: 1/14/2021 11:43 AM
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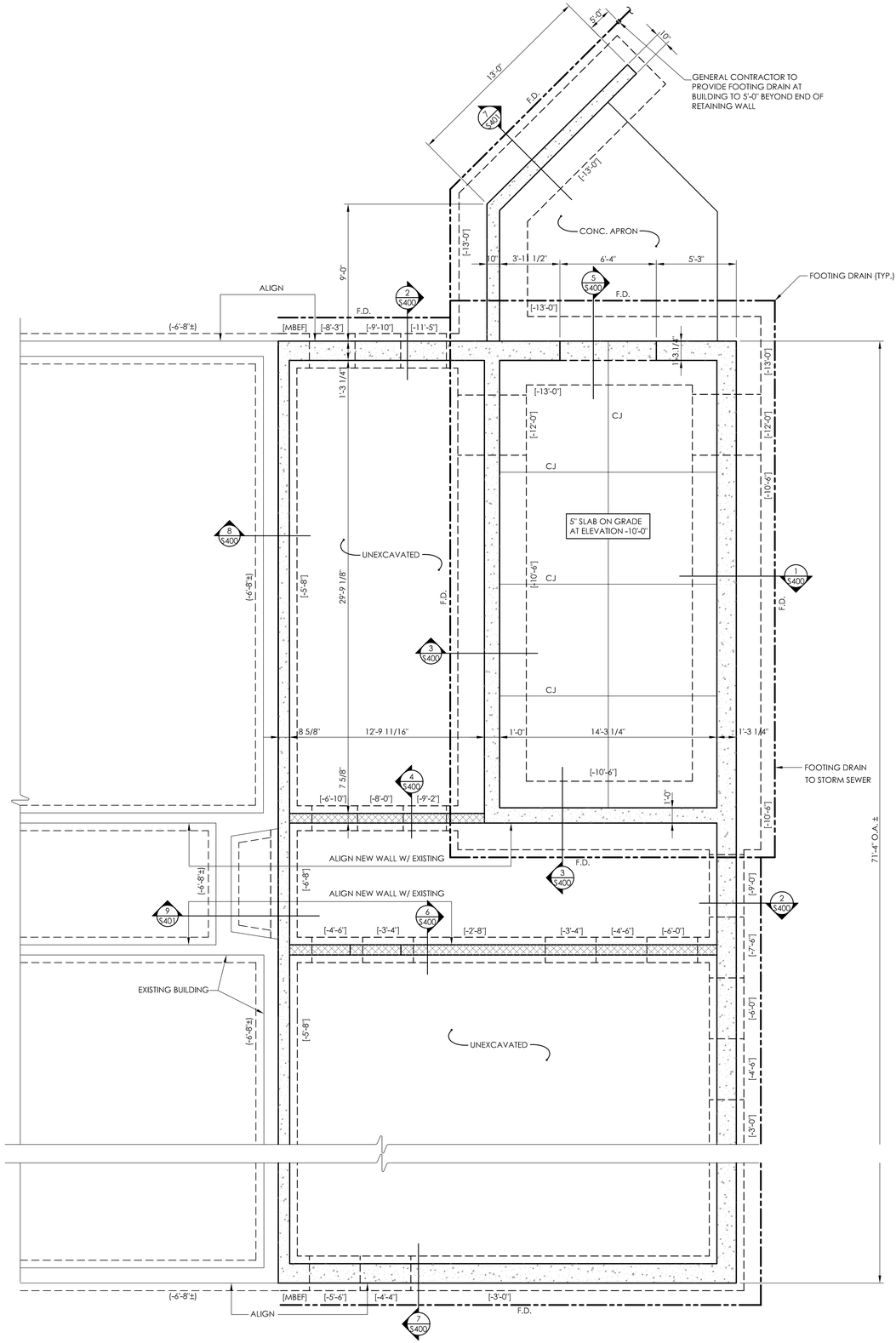


FOUNDATION AND BASEMENT PLAN

SCALE: 1/4" = 1'-0"

FOUNDATION NOTES

1. DATUM -10'-0" ELEVATION 479.31'± COORDINATE WITH CIVIL

2. ASSUMED SOIL BEARING CAPACITY = 2500 PSF.

3. EXTERIOR FOOTINGS SHALL BEAR AT A MINIMUM OF 4'-0" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE. INTERIOR FOOTINGS SHALL BEAR AS SHOWN ON THE DRAWINGS.

4. [ ] DENOTES TOP OF NEW FOOTING.

5. ( ) DENOTES TOP OF EXISTING FOOTING. WHERE NEW FOOTINGS ABUT EXISTING, MATCH BEARING ELEVATION OF EXISTING.

6. SLAB ON GRADE SHALL BE 5" THICK, NORMAL WEIGHT CONCRETE WITH W.W.F. REINFORCING OVER 6" POROUS ENGINEERED FILL.

7. PROVIDE 9 GA. HORIZONTAL JOINT REINFORCING AT 16" IN ALL MASONRY WALLS.

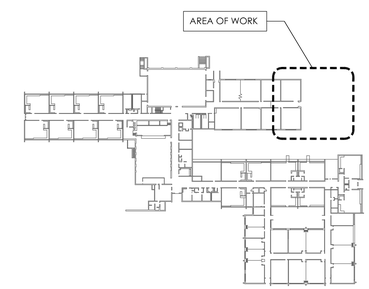
8. PROVIDE #5 VERTICAL REINFORCING, FULL HEIGHT, AT 48" O.C. IN ALL EXTERIOR MASONRY WALLS. PROVIDE AN ADDITIONAL #5 VERTICAL AT EACH SIDE OF ALL MASONRY OPENINGS. PROVIDE #5 DOWELS AT 48" O.C. AT EXTERIOR WALLS AND BEARING WALLS TO FOOTINGS. GROUT ALL BLOCK CORES SOLID CONTINUOUSLY BELOW FINISHED FLOOR, AND THE FIRST TWO COURSES ABOVE FOUNDATION WALLS AND SLABS.

9. REFER TO MASONRY SPECIFICATIONS AND TYPICAL DETAIL DRAWINGS FOR CONSTRUCTION DETAILS, VENEER TIES, AND REINFORCING DETAILS.

10. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR FINISHES, DRAINS, SLOPES, SLAB DEPRESSIONS, AND WATERPROOFING.

[MBEF] = MATCH BEARING ELEVATION OF EXISTING FOOTING.

F.D. = FOOTING DRAIN



KEY PLAN

SCALE: N.T.S.

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NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
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STATE OF NEW YORK
JOSEPH P. RAMOSA
LICENSED PROFESSIONAL ENGINEER
073867

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT

SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	PAT	JR

SCALE AS NOTED

SHEET TITLE
BASEMENT FOUNDATION PLAN

PROJECT NUMBER
14428.11

BES
S200
DRAWING NUMBER

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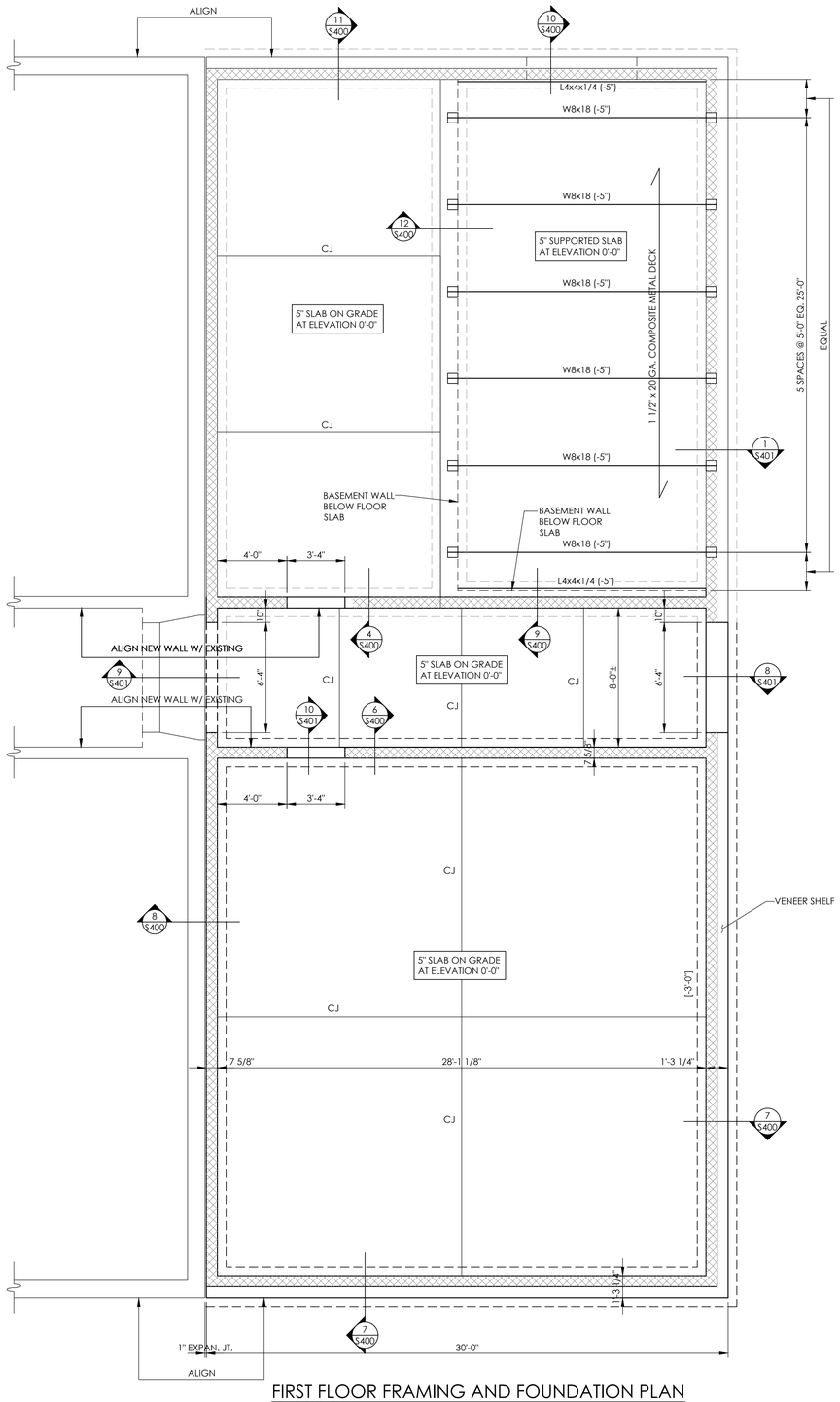
Date last accessed: 1/13/2021 10:47 AM
Date last plotted: 1/13/2021 1:49 PM
Plotted By: Paul Tenny



FIRST FLOOR FRAMING AND FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

FLOOR FRAMING NOTES

1. FINISHED FIRST FLOOR ELEVATION = 0'-0". FINISHED FLOOR OF NEW ADDITION TO ALIGN WITH FINISHED FLOOR OF EXISTING BUILDING.

2. TOP OF STEEL IS 5" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE BY (+ OR -).

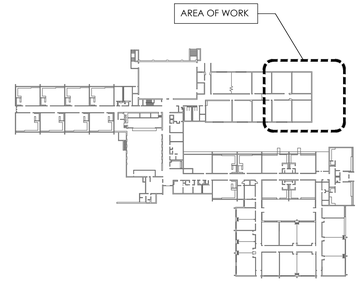
3. SUPPORTED FLOOR SHALL BE 31/2" LIGHTWEIGHT CONCRETE OVER 1 1/2" COMPOSITE METAL DECK, 5" TOTAL. REFER TO TYPICAL DETAILS FOR REINFORCING.

4. BEAMS W14 OR LARGER SHALL BE ASTM A572 GRADE 50. OTHER PLATES AND SHAPES SHALL BE ASTM A36.

5. SHEAR STUDS ON BEAMS ARE NOTED THUS: [20].

6. PROVIDE MASONRY REINFORCING PER NOTES ON FOUNDATION & S800.

7. REFER TO MASONRY SPECIFICATIONS AND TYPICAL DETAIL DRAWINGS FOR CONSTRUCTION DETAILS, VENEER TIES, AND REINFORCING DETAILS.



KEY PLAN
SCALE: N.T.S.

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NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

STATE OF NEW YORK
JOSEPH P. RANIERI
DESIGNED PROFESSIONAL ENGINEER
072867

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT

SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	PAT	JR

SCALE AS NOTED

SHEET TITLE
FIRST FLOOR FRAMING & FOUNDATION PLAN

PROJECT NUMBER
14428.11

BES
S201
DRAWING NUMBER

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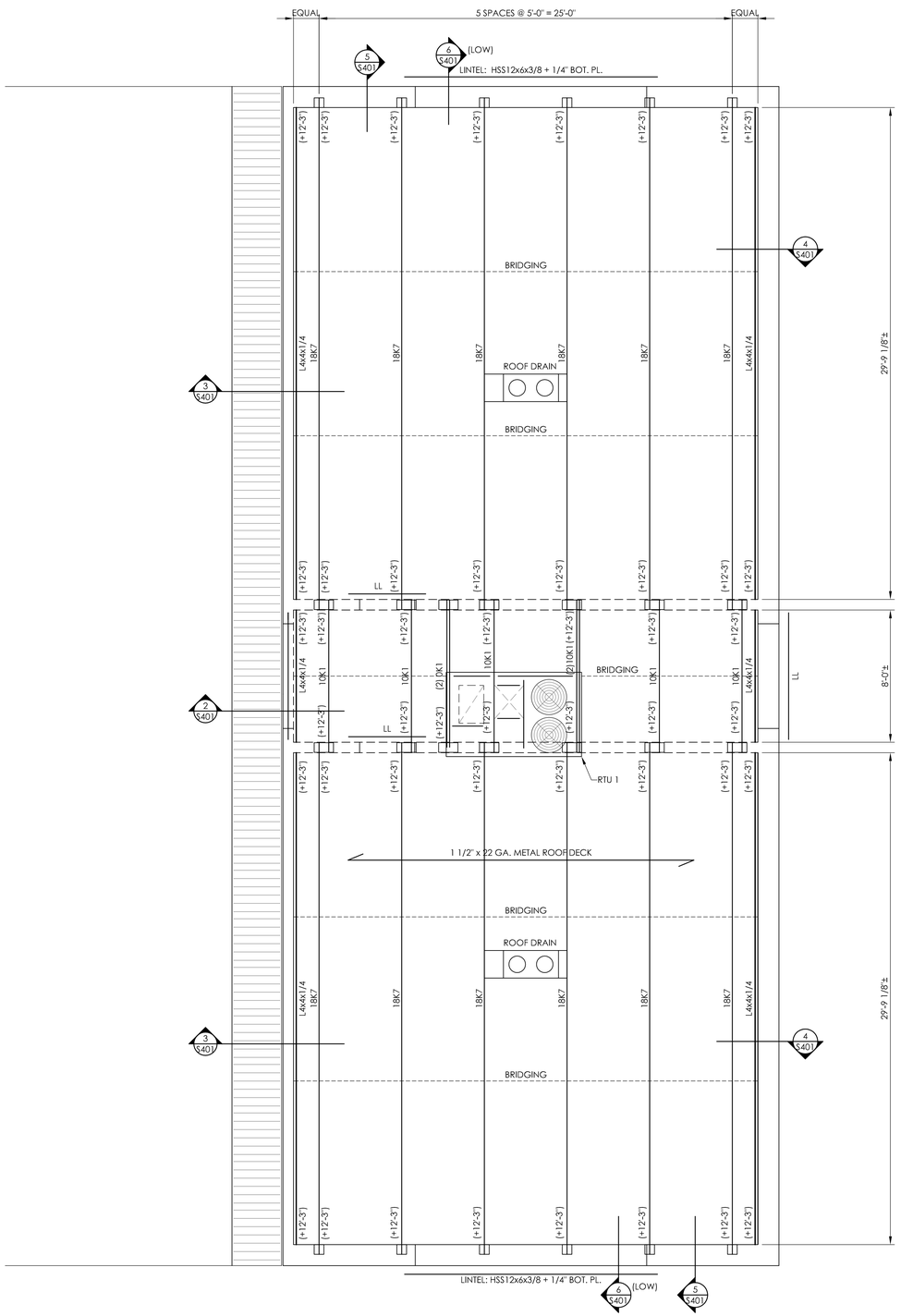
Date last caRPCsed: 1/13/2021 1:48 PM



ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

ROOF FRAMING NOTES

1. TOP OF STEEL ELEVATION IS 12'-3" UNLESS NOTED OTHERWISE BY (+ OR -).

2. BEAMS SHALL BE ASTM A36 UNLESS NOTED ON THE DRAWINGS AS GRADE 50.

3. ROOF DECK SHALL BE 22 GAGE, 1 1/2" WIDE RIB.

4. BEARING PLATES SHALL BE 7" x 7" x 1/2" OR 7" x 14" x 1/2". REFER TO TYPICAL DETAILS FOR STUD ANCHORS ETC.

5. PROVIDE TWO EXTRA JOISTS AT EACH ROOFTOP MECHANICAL UNIT (RTU). COORDINATE LOCATIONS AND DIMENSIONS WITH APPROVED SHOP DRAWINGS.

6. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ROOF PENETRATIONS INCLUDING ROOF DRAIN SUMPS. COORDINATE LOCATIONS AND DIMENSIONS WITH APPROVED SHOP DRAWINGS.

7. PROVIDE MASONRY REINFORCING PER NOTES ON FOUNDATION DRAWING(S) & DWG. S800.

8. PROVIDE JOIST BRIDGING PER THE REQUIREMENTS OF THE STEEL JOIST INSTITUTE.

9. REFER TO MASONRY SPECIFICATIONS AND TYPICAL DETAIL DRAWINGS FOR CONSTRUCTION DETAILS, VENEER TIES, AND REINFORCING DETAILS.

10. WHERE HVAC DUCTWORK INTERSECTS DIAGONAL BRIDGING LINES, PROVIDE HORIZONTAL BRIDGING AT TOP AND BOTTOM CHORDS AS FOLLOWS:

A. INSTALL DIAGONAL BRIDGING AS TYPICAL DURING ERECTION.

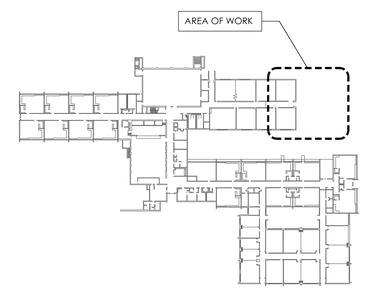
B. AFTER ERECTION REMOVE DIAGONALS AND INSTALL HORIZONTAL BRIDGING.

C. HORIZONTAL REPLACEMENT BRIDGING SHALL BE DESIGNED AND SUPPLIED BY JOIST MANUFACTURER.

D. REFER TO MECHANICAL DRAWINGS FOR EXTENT AND LOCATIONS OF HVAC DUCTWORK.

11. VERIFY ALL DIMENSIONS IN THE FIELD

12. LL = LOOSE LINTEL (SEE MASONRY LINTEL SCHEDULE ON DRAWING S801



KEY PLAN
SCALE: N.T.S.

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SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	PAT	JR

SCALE AS NOTED

SHEET TITLE
ROOF FRAMING PLAN

PROJECT NUMBER
14428.11

BES
S202
DRAWING NUMBER

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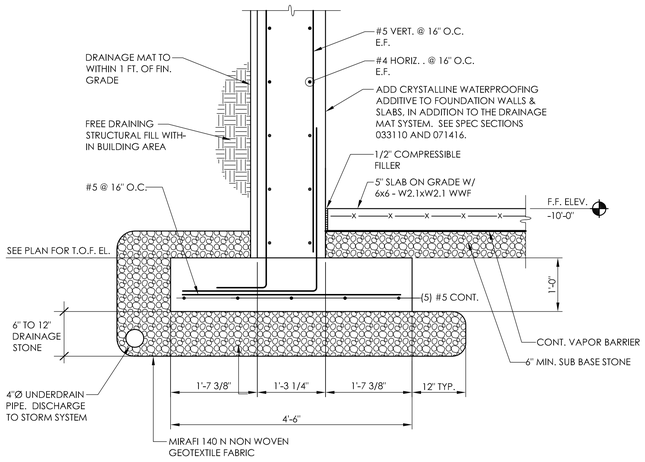

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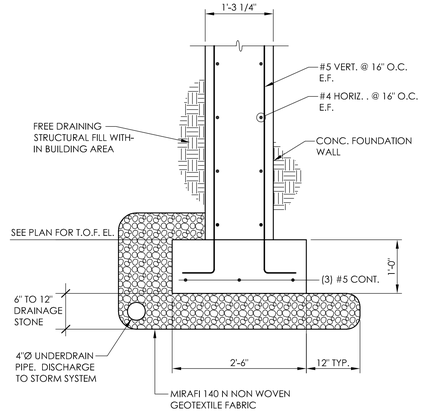

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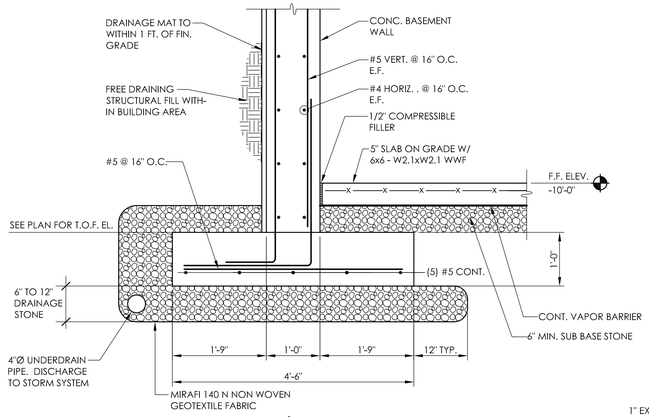

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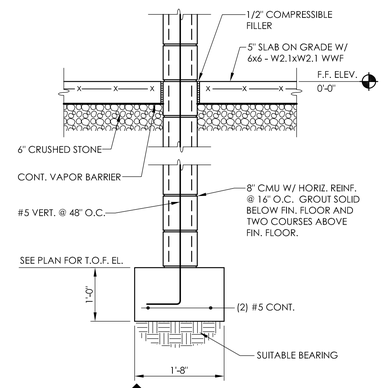

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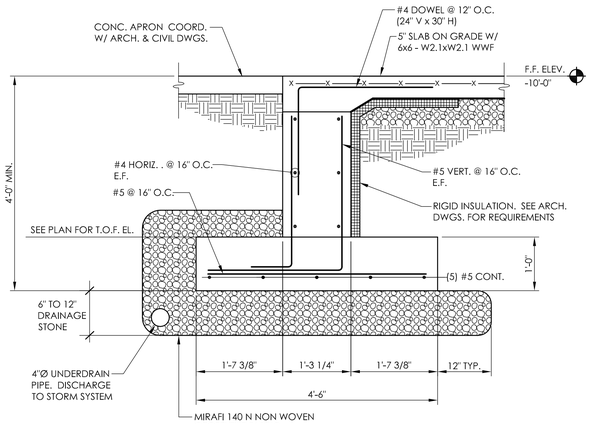

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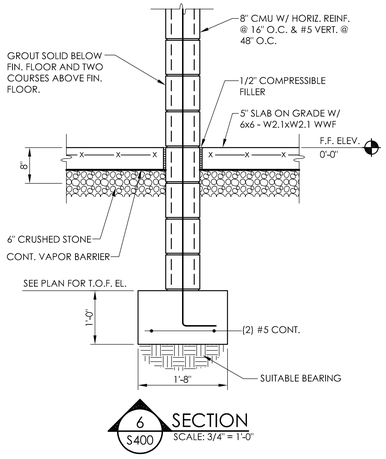

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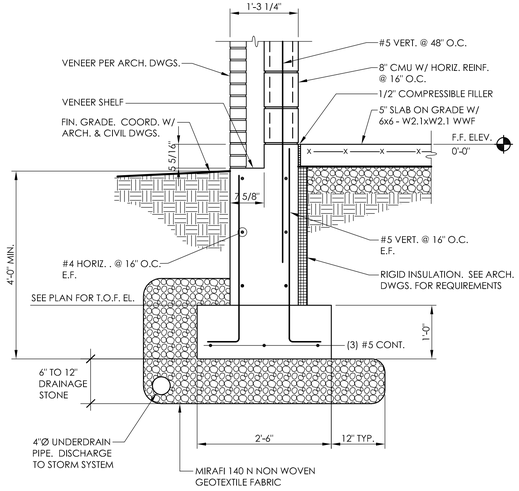

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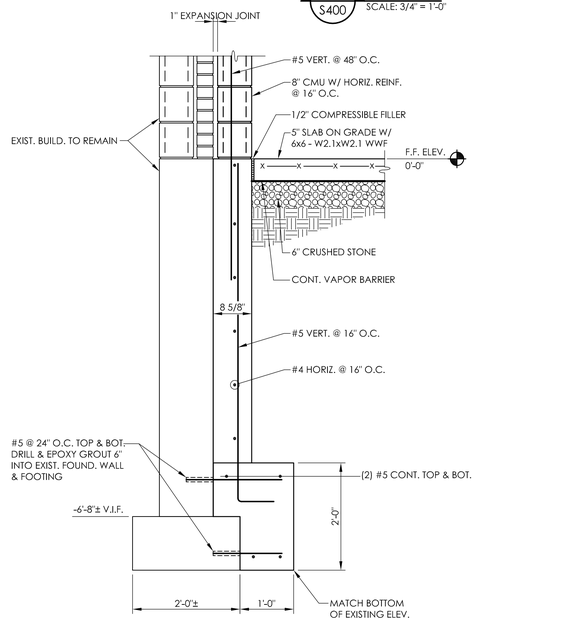

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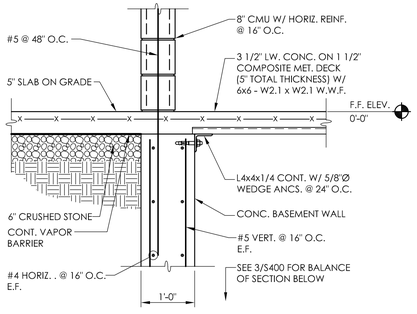

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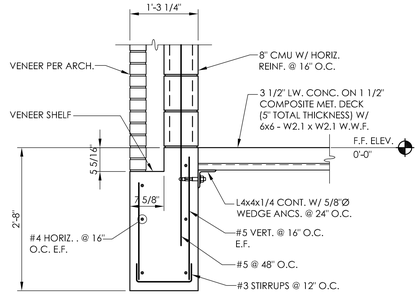

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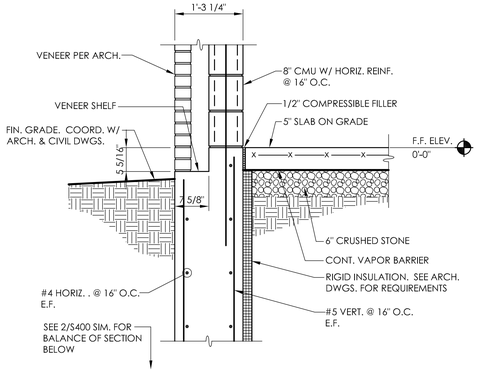

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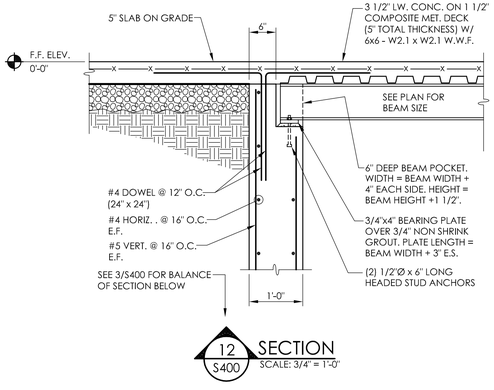

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SCALE: 3/4" = 1'-0"

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BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT
SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	PAT	JR

SCALE: AS NOTED

SHEET TITLE: SECTIONS AND DETAILS

PROJECT NUMBER: 14428.11

BES S400
DRAWING NUMBER

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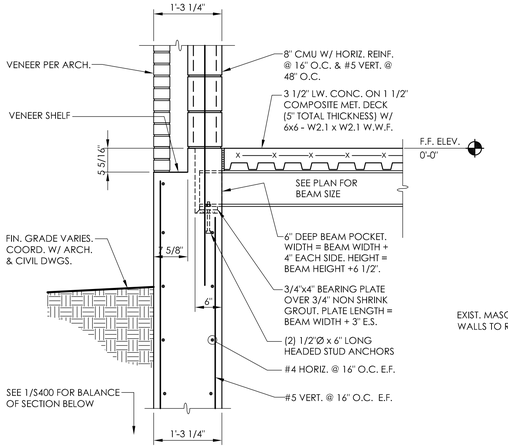
Plotted By: Paul Tenny
Date last caRPCsed: 1/13/2021 11:08 AM



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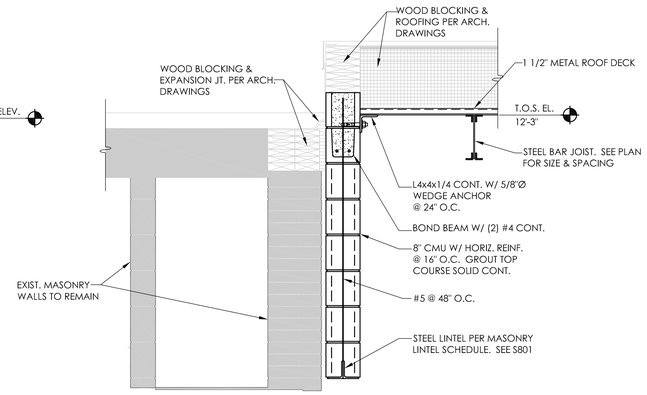

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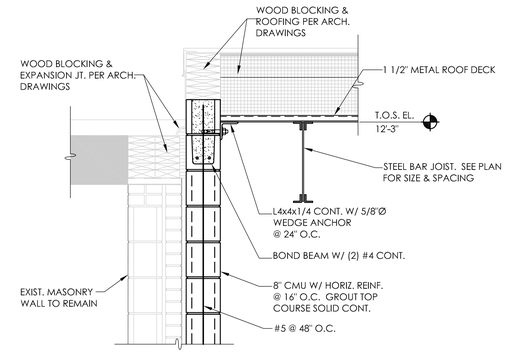

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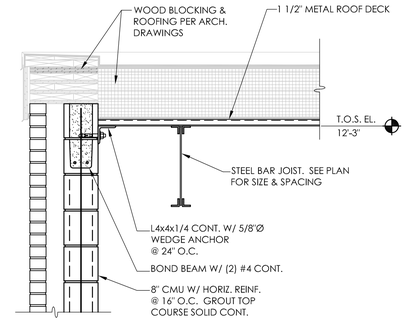

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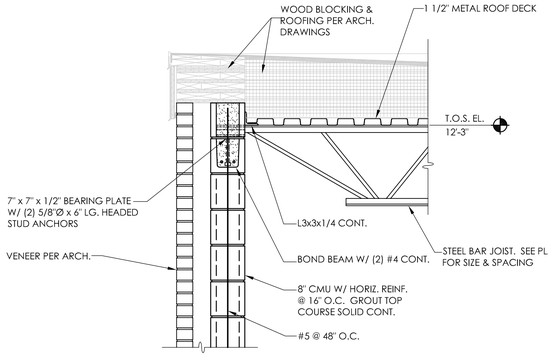

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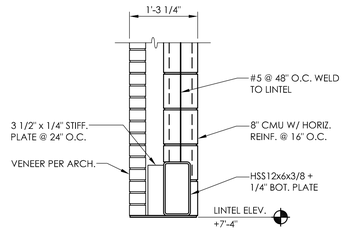

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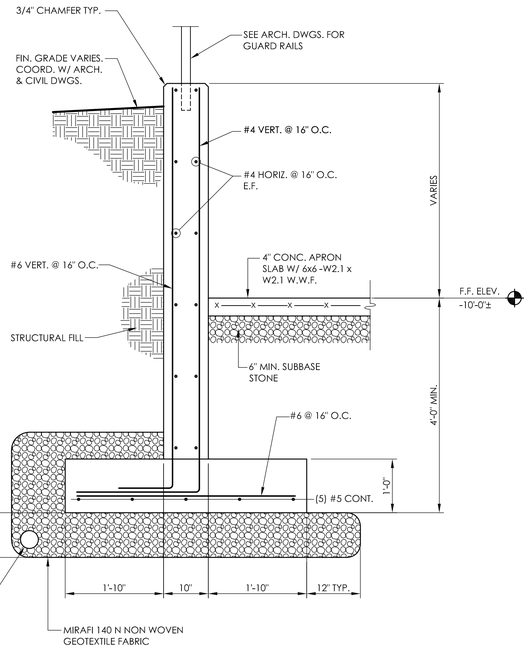

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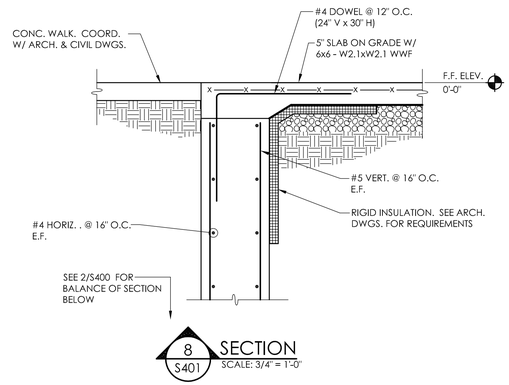

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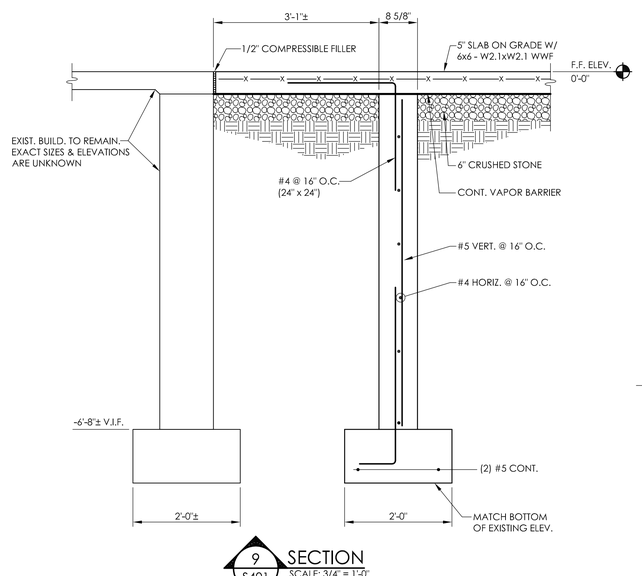

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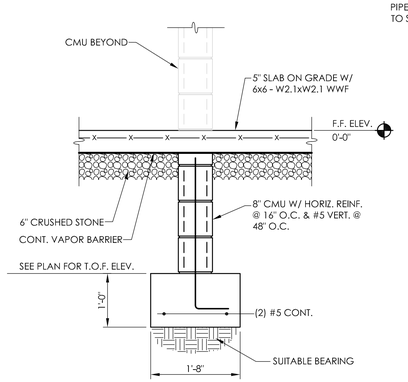

10 S401 SECTION
SCALE: 3/4" = 1'-0"

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TEL (800) 274-9000
FAX (845) 567-9614

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073867
LICENSED PROFESSIONAL ENGINEER

OSSINING UNION FREE SCHOOL DISTRICT
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SCALE AS NOTED

SHEET TITLE
SECTIONS AND DETAILS

PROJECT NUMBER
14428.11

BES
S401
DRAWING NUMBER

Plotted By: Paul Tenny
Date last plotted: 1/13/2021 1:40 PM
Date last acRPCsed: 1/13/2021 1:30 PM
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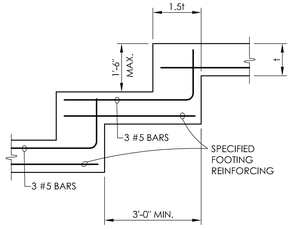

1 TYP. STEPPED FOOTING DETAIL

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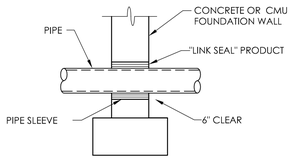
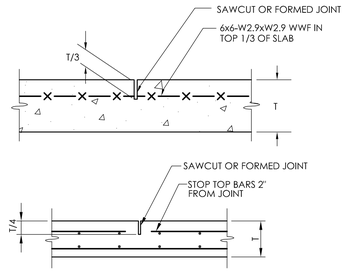
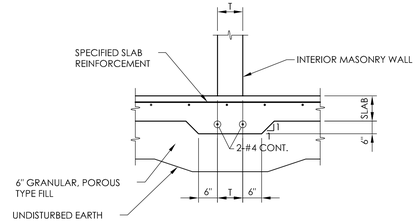


3 TYP. PIPE THRU FOUNDATION WALL



4 TYP. CONTROL JOINT DETAIL FOR SLAB-ON-GRADE



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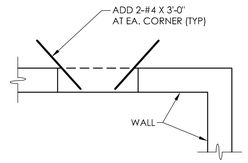
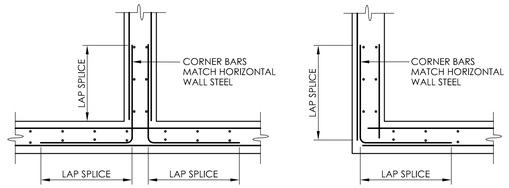
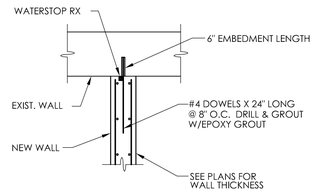


6 SLAB AT DOOR OPENING

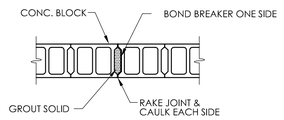


7 TYP. REINFORCING DETAIL

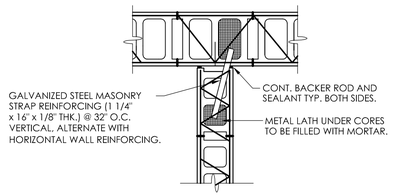
HORIZONTAL BARS AT CORNERS AND INTERSECTIONS TYPICAL FOR WALLS, GRADE BEAMS AND MASONRY BOND BEAMS



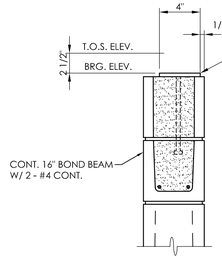
8 NEW TO EXIST. CONC. WALL



9 MASONRY CONTROL JOINT

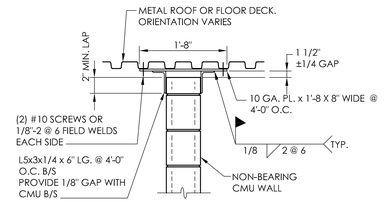


10 MASONRY INTERSECTION DETAIL



11 JOIST BEARING PLATE @ ROOF

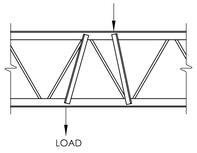
(JOISTS ±5'-0" O.C.)
(K SERIES - OPEN WEB JOISTS)



12 CMU WALL LATERAL SUPPORT @ METAL DECK

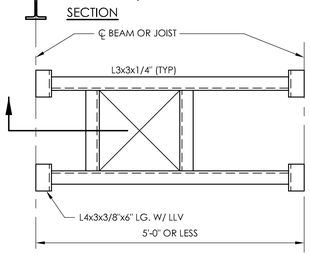
SCALE: N.T.S

REFER TO ARCH. DWGS FOR FINAL WALL HEIGHT AND GAP FILL MATERIAL.

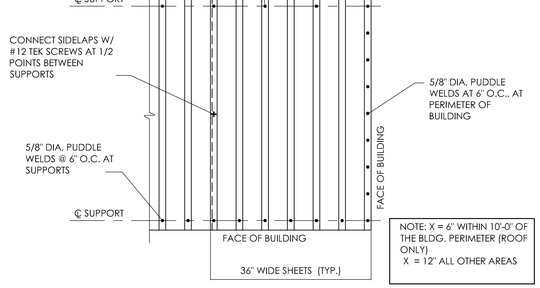


13 CONCENTRATED LOAD ON JOIST

WHEN LOADS OCCUR AWAY FROM A PANEL POINT, A STRUT ANGLE (L2 1/2 x 2 1/2 x 3/16) MUST BE INSTALLED IN THE FIELD TO CARRY THE LOAD TO AN OPPOSITE PANEL POINT



14 TYP. STEEL FRAME FOR ROOF OPENING



15 TYP. DECK ATTACHMENT DETAIL

MASONRY LINTEL SCHEDULE

WALL TYPE	SPAN	LINTEL	SECTION
4" MASONRY OR VENEER	0'-8" TO 4'-6"	L4x3 1/2x5/16 LLV	⌞
	4'-7" TO 5'-6"	L4x3 1/2x5/16 LLV	⌞
	5'-7" TO 6'-6"	L5x3 1/2x5/16 LLV	⌞
	6'-7" TO 7'-6"	L6x3 1/2x5/16 LLV	⌞
6" MASONRY	0'-0" TO 1'-3"	BOND BEAM W/ (1) #4	⊏
	1'-4" TO 4'-6"	WT4x9	⊥
	4'-7" TO 5'-6"	WT4x10.5	⊥
	5'-7" TO 6'-6"	WT5x13	⊥
	6'-7" TO 7'-6"	WT5x13	⊥
	7'-7" TO 9'-0"	W8x10 + 5/16x6 1/2 PL	T
8" MASONRY	0'-0" TO 1'-3"	BOND BEAM W/ (2) #4	⊏
	1'-4" TO 4'-6"	(2) L4x3 1/2x5/16 LLV	⊥
	4'-7" TO 5'-6"	(2) L4x3 1/2x5/16 LLV	⊥
	5'-7" TO 6'-6"	(2) L5x3 1/2x5/16 LLV	⊥
	6'-7" TO 7'-6"	(2) L6x3 1/2x5/16 LLV	⊥
	7'-7" TO 9'-0"	WT9x25	⊥
4" MASONRY OR VENEER + 8" MASONRY OR 12" MASONRY	0'-0" TO 1'-3"	L4x3 1/2x5/16 LLV + BOND BEAM W/ (2) #4	⊏
	1'-4" TO 4'-6"	(3) L4x3 1/2x5/16 LLV	⊥
	4'-7" TO 5'-6"	(3) L4x3 1/2x5/16 LLV	⊥
	5'-7" TO 6'-6"	(3) L5x3 1/2x5/16 LLV	⊥
	6'-7" TO 7'-6"	(3) L6x3 1/2x5/16 LLV	⊥
	7'-7" TO 8'-6"	W8x15 + 5/16x7 1/2 PL	T

SCHEDULE NOTES:
1. PROVIDE LINTELS OVER ALL MASONRY OPENINGS AS SCHEDULED UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. MINIMUM BEARING FOR ALL LINTELS SHALL BE 8" EACH END.
3. GROUT SOLID AREA 16" W x 24" H BELOW BEARING UNLESS NOTED OTHERWISE ON THE DRAWINGS.
4. COORDINATE MASONRY OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS.
5. CONTRACTOR SHALL PROVIDE AN ADDITIONAL 50 FEET OF L5 x 3 1/2 x 5/16 ANGLE.
6. FOR MASONRY OPENING SPANS GREATER THAN 6'-0", BOLT ASSEMBLIES TOGETHER AT 1/3 POINTS.
7. FOR ALL W AND WT SHAPE LINTELS, PROVIDE A 1/2x5x7 BEARING PLATE WITH (2) 1/2" DIAMETER x 6" LONG HEADED STUDS, EACH END.
8. STEEL LINTELS EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED UNLESS NOTED OTHERWISE.

CONCRETE REINFORCING LAP/EMBEDMENT SCHEDULE

BAR SIZE SI [METRIC]	LAP LENGTH (IN.)		EMBEDMENT LENGTH (IN.)	
	f'c=3,000 PSI	f'c=4,000 PSI	f'c=3,000 PSI	f'c=4,000 PSI
#3 [#10]	22	20	17	15
#4 [#13]	29	25	22	19
#5 [#16]	36	32	28	24
#6 [#19]	43	38	33	29
#7 [#22]	63	54	48	42
#8 [#25]	72	62	55	48
#9 [#29]	81	70	62	54
#10 [#32]	91	79	70	61
#11 [#36]	101	87	78	67
#14 [#43]	NOT PERMITTED	NOT PERMITTED	93	81
#18 [#57]	NOT PERMITTED	NOT PERMITTED	124	108

NP = NOT PERMITTED

SCHEDULE NOTES:
1. VALUES ARE BASED ON GRADE 60, UNCOATED REINFORCING, AND NORMAL WEIGHT CONCRETE.
2. VALUES FOR BEAMS OR COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT AND COVER MEETING CODE REQUIREMENTS.
3. VALUES ARE BASED ON CONCRETE COVER NOT LESS THAN 1 BAR DIAMETER AND SPACING NOT LESS THAN 2 BAR DIAMETERS.
4. VALUES TO BE USED UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
5. FOR ALL OTHER CRITERIA, REFER TO PROJECT SPECIFICATIONS.

MASONRY REINFORCING LAP/EMBEDMENT SCHEDULE

BAR SIZE SI [METRIC]	4" CMU	6" CMU	8" CMU		12" CMU	
	1 BAR/CELL	1 BAR/CELL	1 BAR/CELL	2 BAR/CELL	1 BAR/CELL	2 BAR/CELL
#3 [#10]	19	16	16	17	16	17
#4 [#13]	34	25	21	29	21	29
#5 [#16]	NP	40	27	45	26	45
#6 [#19]	NP	NP	51	54	40	54
#7 [#22]	NP	NP	63	63	46	63
#8 [#25]	NP	NP	72	NP	63	72
#9 [#29]	NP	NP	NP	NP	81	81
#10 [#32]	NP	NP	NP	NP	NP	NP
#11 [#36]	NP	NP	NP	NP	NP	NP

NP = NOT PERMITTED

SCHEDULE NOTES:
1. VALUES ARE BASED ON GRADE 60, UNCOATED REINFORCING, AND STANDARD BLOCK (f'm = 1,500 PSI).
2. WHEN LAP SPLICING BARS OF DIFFERENT SIZES, THE LAP LENGTH IS DETERMINED BY THE SMALLER BAR.
3. VALUES TO BE USED UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
4. FOR ALL OTHER CRITERIA, REFER TO PROJECT SPECIFICATIONS.
5. ALL VALUES ARE PROVIDED IN INCHES.

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ARCHITECTURE ▪ ENGINEERING ▪ PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

STATE OF NEW YORK JOSEPH P. RABSON 073867 LICENSED PROFESSIONAL ENGINEER

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT
SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	PAT	JR

SCALE AS NOTED

SHEET TITLE
TYPICAL DETAILS

PROJECT NUMBER
14428.11

BES
S801
DRAWING NUMBER

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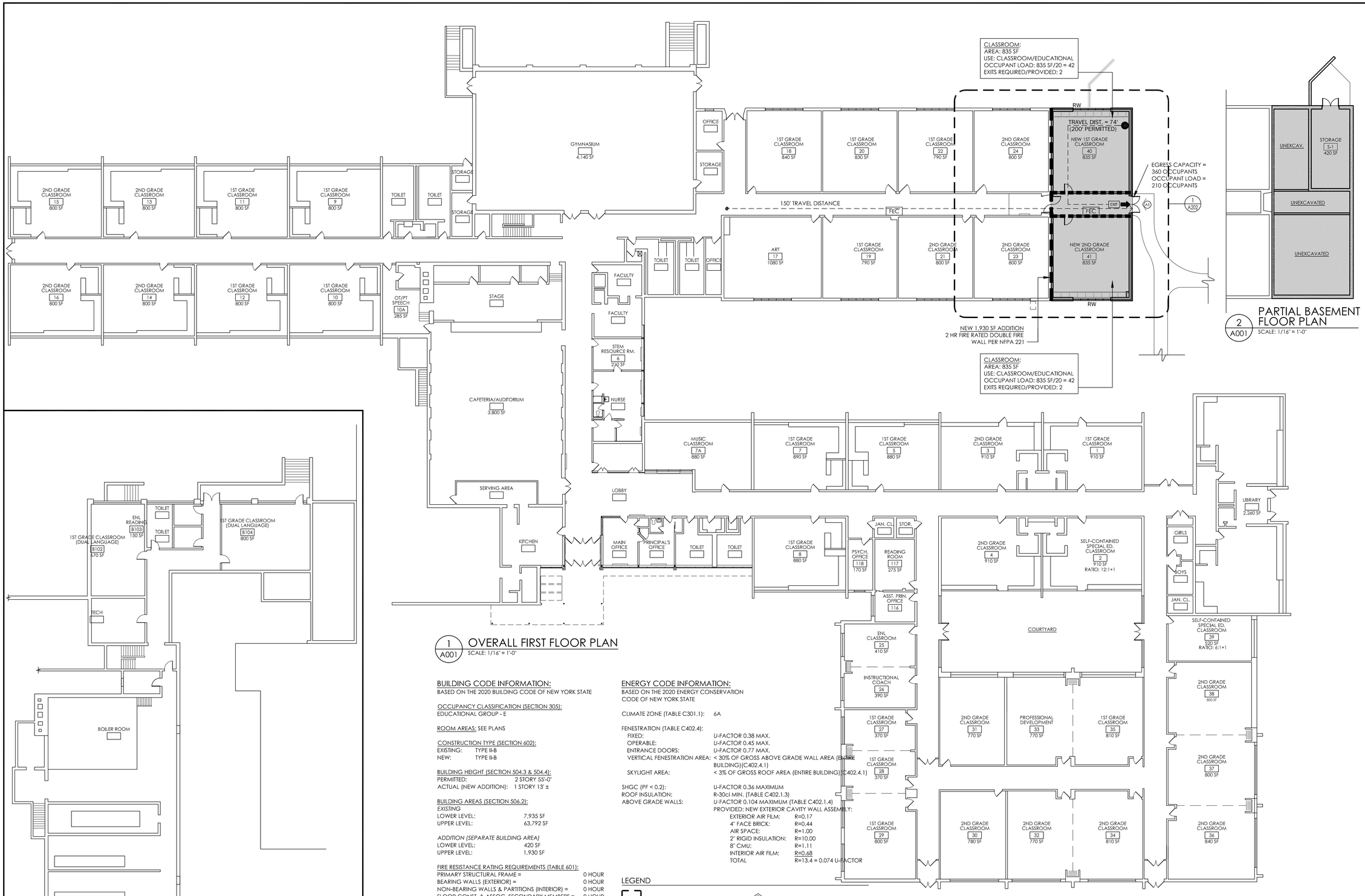
Plotted By: Paul Tenny



2 A001 PARTIAL BASEMENT FLOOR PLAN
SCALE: 1/16" = 1'-0"

1 A001 OVERALL FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

2 A001 OVERALL BASEMENT PLAN
SCALE: 1/16" = 1'-0"

BUILDING CODE INFORMATION:

BASED ON THE 2020 BUILDING CODE OF NEW YORK STATE

OCCUPANCY CLASSIFICATION (SECTION 305):
EDUCATIONAL GROUP - E

ROOM AREAS: SEE PLANS

CONSTRUCTION TYPE (SECTION 602):
EXISTING: TYPE II-B
NEW: TYPE II-B

BUILDING HEIGHT (SECTION 504.3 & 504.4):
PERMITTED: 2 STORY 55'-0"
ACTUAL (NEW ADDITION): 1 STORY 13' ±

BUILDING AREAS (SECTION 506.2):
EXISTING
LOWER LEVEL: 7,935 SF
UPPER LEVEL: 63,792 SF

ADDITION (SEPARATE BUILDING AREA)
LOWER LEVEL: 420 SF
UPPER LEVEL: 1,930 SF

FIRE RESISTANCE RATING REQUIREMENTS (TABLE 601):

PRIMARY STRUCTURAL FRAME =	0 HOUR
BEARING WALLS (EXTERIOR) =	0 HOUR
NON-BEARING WALLS & PARTITIONS (INTERIOR) =	0 HOUR
FLOOR CONST. & ASSOC. SECONDARY MEMBERS =	0 HOUR
ROOF CONST. & ASSOC. SECONDARY MEMBERS =	0 HOUR

PLUMBING FIXTURES:

EXISTING TO REMAIN. NO ADDITIONAL CLASSROOM SPACES

ENERGY CODE INFORMATION:

BASED ON THE 2020 ENERGY CONSERVATION CODE OF NEW YORK STATE

CLIMATE ZONE (TABLE C301.1): 6A

FENESTRATION (TABLE C402.4):

FIXED:	*U*-FACTOR 0.38 MAX.
OPERABLE:	*U*-FACTOR 0.45 MAX.
ENTRANCE DOORS:	*U*-FACTOR 0.77 MAX.
VERTICAL FENESTRATION AREA:	< 30% OF GROSS ABOVE GRADE WALL AREA (ENTIRE BUILDING)(C402.4.1)
SKYLIGHT AREA:	< 3% OF GROSS ROOF AREA (ENTIRE BUILDING) (C402.4.1)
SHGC (PF < 0.2):	U-FACTOR 0.36 MAXIMUM
ROOF INSULATION:	R-30ci MIN. (TABLE C402.1.3)
ABOVE GRADE WALLS:	*U*-FACTOR 0.104 MAXIMUM (TABLE C402.1.4)

PROVIDED: NEW EXTERIOR CAVITY WALL ASSEMBLY:

EXTERIOR AIR FILM:	R=0.17
4" FACE BRICK:	R=0.44
AIR SPACE:	R=1.00
2" RIGID INSULATION:	R=10.00
8" CMU:	R=1.11
INTERIOR AIR FILM:	R=0.68
TOTAL	R=13.4 = 0.074 U-FACTOR

LEGEND

- AREA OF WORK
- NEW ADDITION
- 2-HOUR FIRE-RATED DOUBLE FIRE WALL PER NFPA 221
- 1-HOUR FIRE-RATED PARTITION
- AE — ACCESSIBLE BUILDING ENTRANCE
- FEC — FIRE EXTINGUISHER CABINET
- RW — RESCUE WINDOW

N

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50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

REVISIONS		
NO.	DATE	DESCRIPTION
1	4/23/2021	SED COMMENTS

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT
SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	RG	MJ

SCALE AS NOTED

SHEET TITLE
OVERALL BASEMENT & FIRST FLOOR PLANS & CODE INFORMATION

PROJECT NUMBER
14428.11

BES
A001
DRAWING NUMBER

Plotted By: Mark Johnson
Date last plotted: 5/14/2021 8:50 AM
Date last acRPCsed: 4/21/2021 5:43 PM
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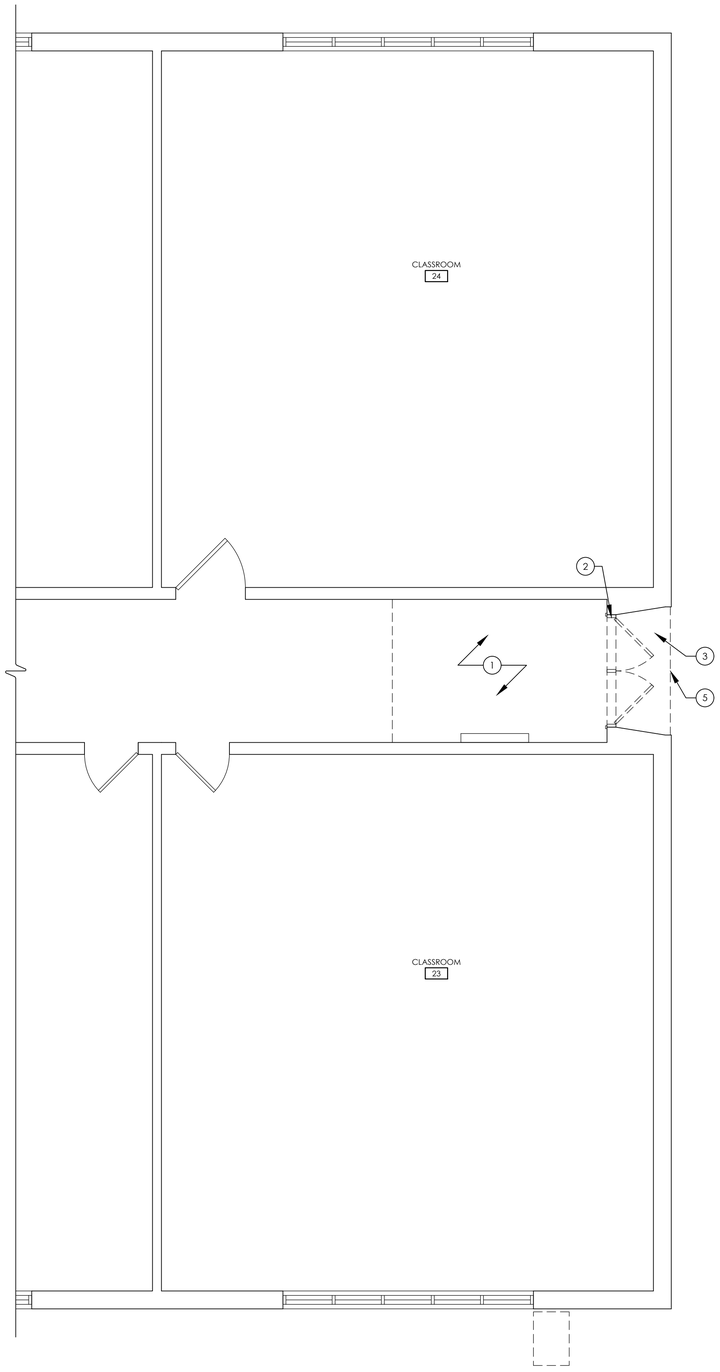
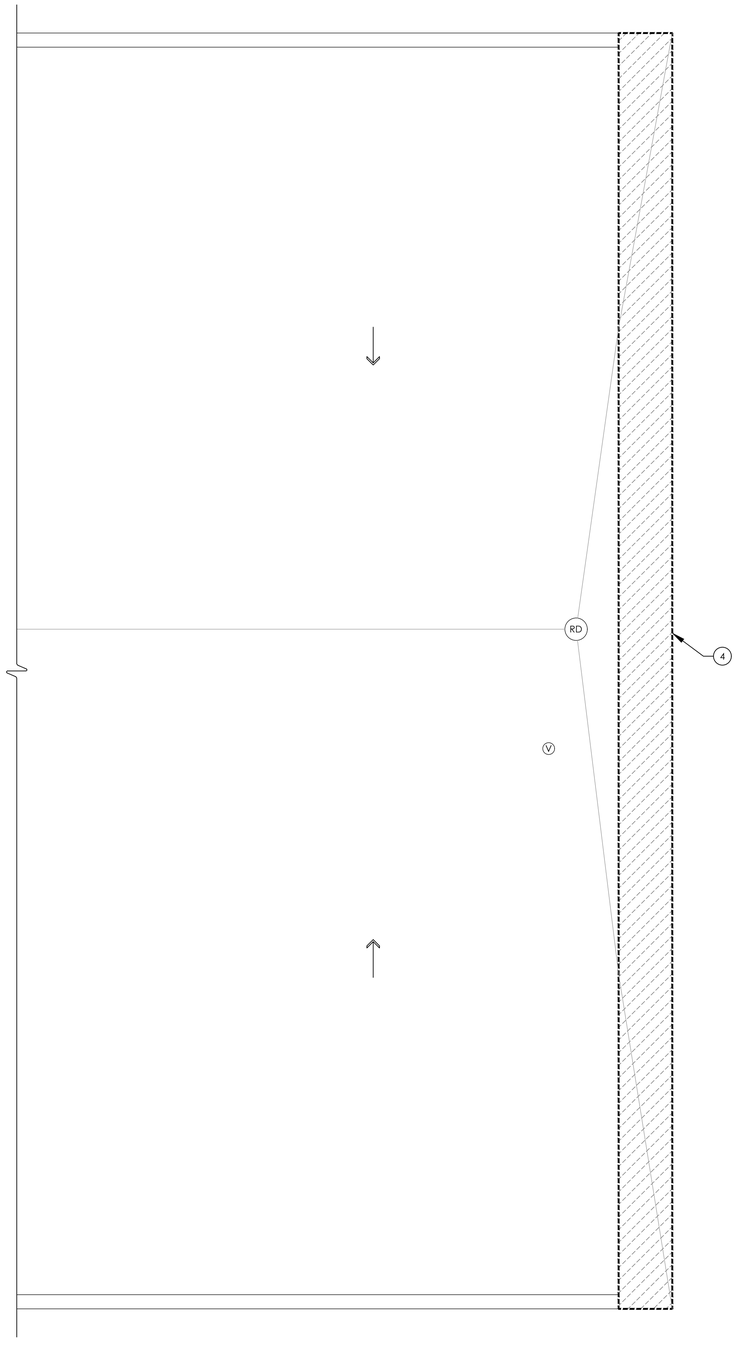


1 A101 EXISTING FIRST FLOOR DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



2 A101 EXISTING ROOF DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES:

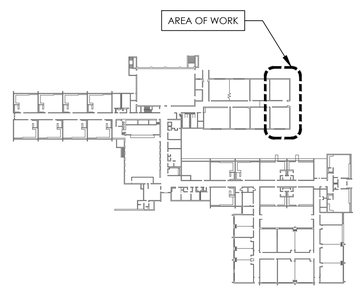
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS AND DETAILS INVOLVED IN THE DEMOLITION WORK. SPECIFIC INSTRUCTIONS ON EACH ITEM WILL NOT BE GIVEN.
2. THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH THE OVERALL PROJECT SCHEDULE.
3. THE BUILDING SHALL BE MAINTAINED WEATHER TIGHT DURING ALL DEMOLITION WORK.
4. THE ROOFING CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN WATER TIGHTNESS & PROVIDE PROTECTION AT ANY/ALL OPENINGS IN ROOF LEFT AT THE END OF EACH CONSTRUCTION DAY OR ONSET OF INCLEMENT WEATHER.
5. PATCH ALL WALLS, FLOORS AND CEILINGS AT ALL REMOVALS TO MATCH EXISTING AND SCHEDULED FINISHES.
6. THE OWNER SHALL PROVIDE THE CONTRACTOR WITH A LIST OF ALL ITEMS TO BE SALVAGED PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL PROTECT ADJACENT SURFACES AND FINISHES NOT SCHEDULED FOR WORK AND SHALL REPAIR ANY DAMAGED AREAS AS A RESULT OF CONTRACTED WORK AT NO ADDITIONAL COST TO THE OWNER.
8. THE CONTRACTOR SHALL MAINTAIN AND CONTINUE SAFE ACCESS TO ALL EXITS, STAIRS AND ELEVATORS FOR THE BUILDING OCCUPANTS DURING CONSTRUCTION.
9. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF THE WORK.

DEMOLITION KEYNOTES:

1. EXISTING RECESSED FLOOR MAT TO BE REMOVED IN ITS ENTIRETY AND SURFACES PREPARED FOR NEW WORK.
2. EXISTING DOORS, DOOR FRAME AND ALL ASSOCIATED HARDWARE TO BE REMOVED IN THEIR ENTIRETY.
3. REMOVE EXISTING CONCRETE APRON.
4. EXISTING ROOFING (INCLUDING ALL EXISTING EXPANSION JOINTS, COPINGS, FASCIAS, REGLETS, WOOD CURBS, AREA DIVIDERS, FLASHINGS, AND ALL ASSOCIATED ITEMS) TO BE REMOVED AS REQUIRED TO ACCOMMODATE NEW WORK.
5. REMOVE EXISTING SOFFIT ABOVE TO ACCOMMODATE NEW WORK.

ROOF LEGEND

- (V) VENT
- (RD) ROOF DRAIN
- EXISTING ROOFING TO BE REMOVED TO ACCOMMODATE NEW WORK



KEY PLAN
SCALE: N.T.S.

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OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT

SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	RG	MJ

SCALE AS NOTED

SHEET TITLE
EXISTING FIRST FLOOR & ROOF DEMOLITION PLANS

PROJECT NUMBER
14428.11

BES
A101
DRAWING NUMBER

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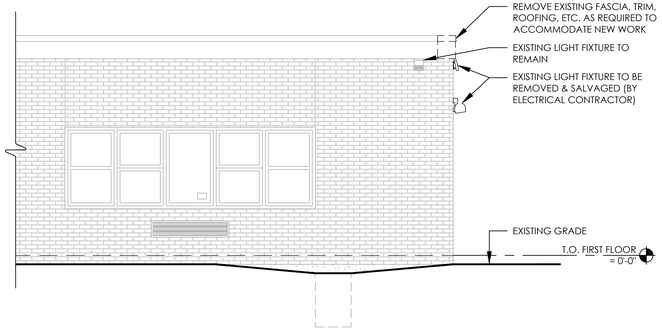
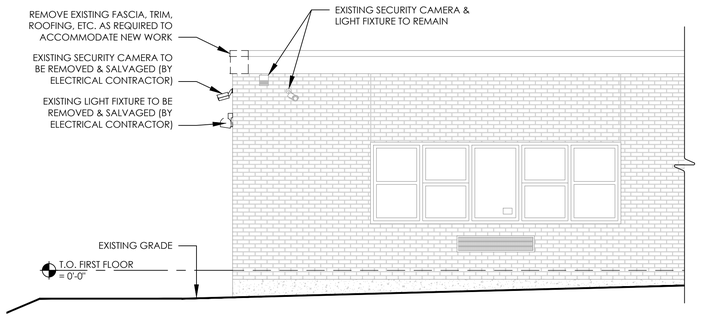
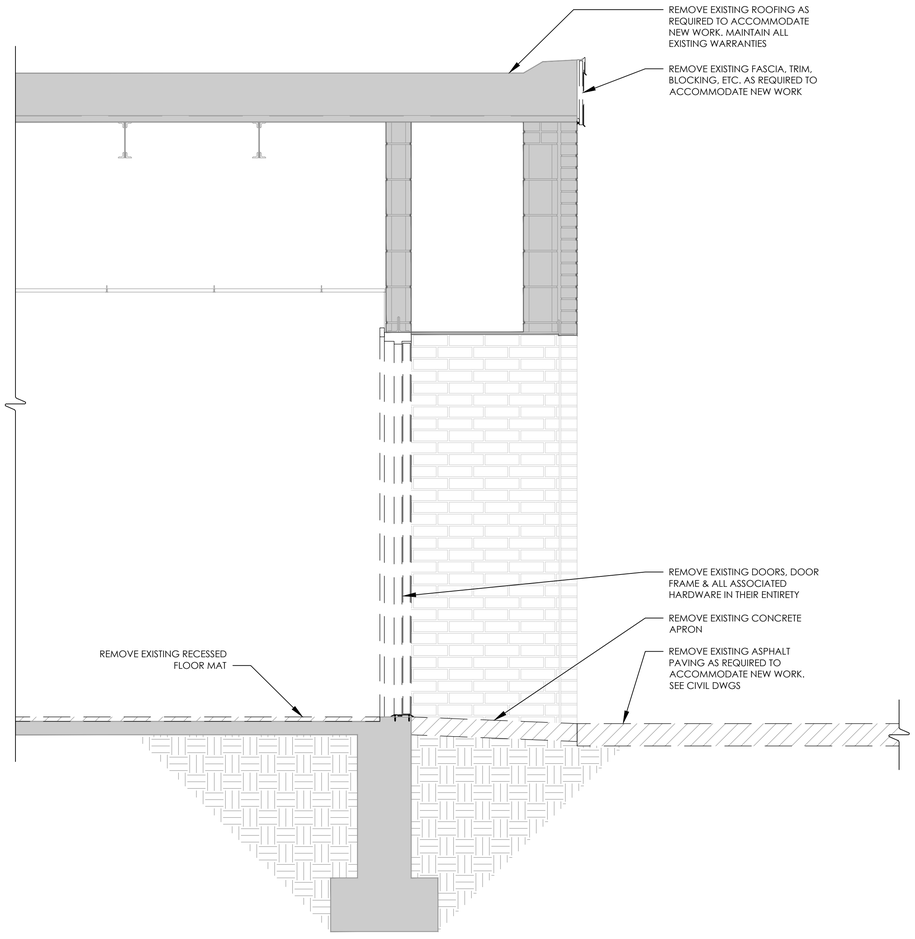
Date last plotted: 1/18/2021 1:31 PM
Plotted By: Ryan Goshea



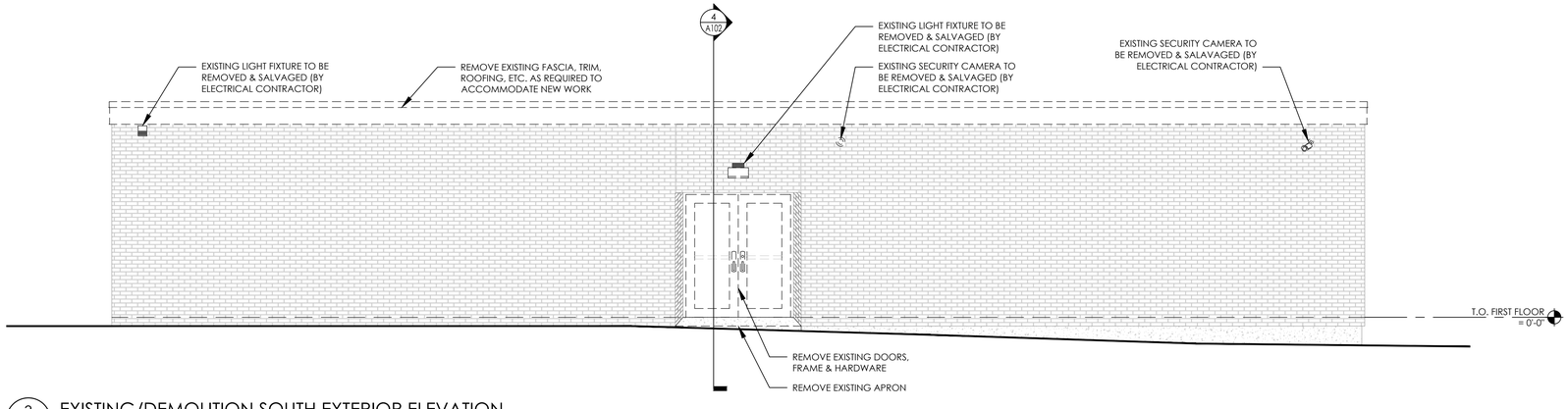
1 A102 EXISTING/DEMOLITION WEST EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



2 A102 EXISTING/DEMOLITION EAST EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



4 A102 EXISTING/DEMOLITION BUILDING SECTION
SCALE: 3/4" = 1'-0"



3 A102 EXISTING/DEMOLITION SOUTH EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

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NEWBURGH, NEW YORK 12550
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CLASSROOM ADDITION PROJECT
SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	RG	MJ

SCALE AS NOTED

SHEET TITLE
EXISTING/DEMOLITION EXTERIOR ELEVATIONS & BUILDING SECTION

PROJECT NUMBER
14428.11

BES
A102
DRAWING NUMBER

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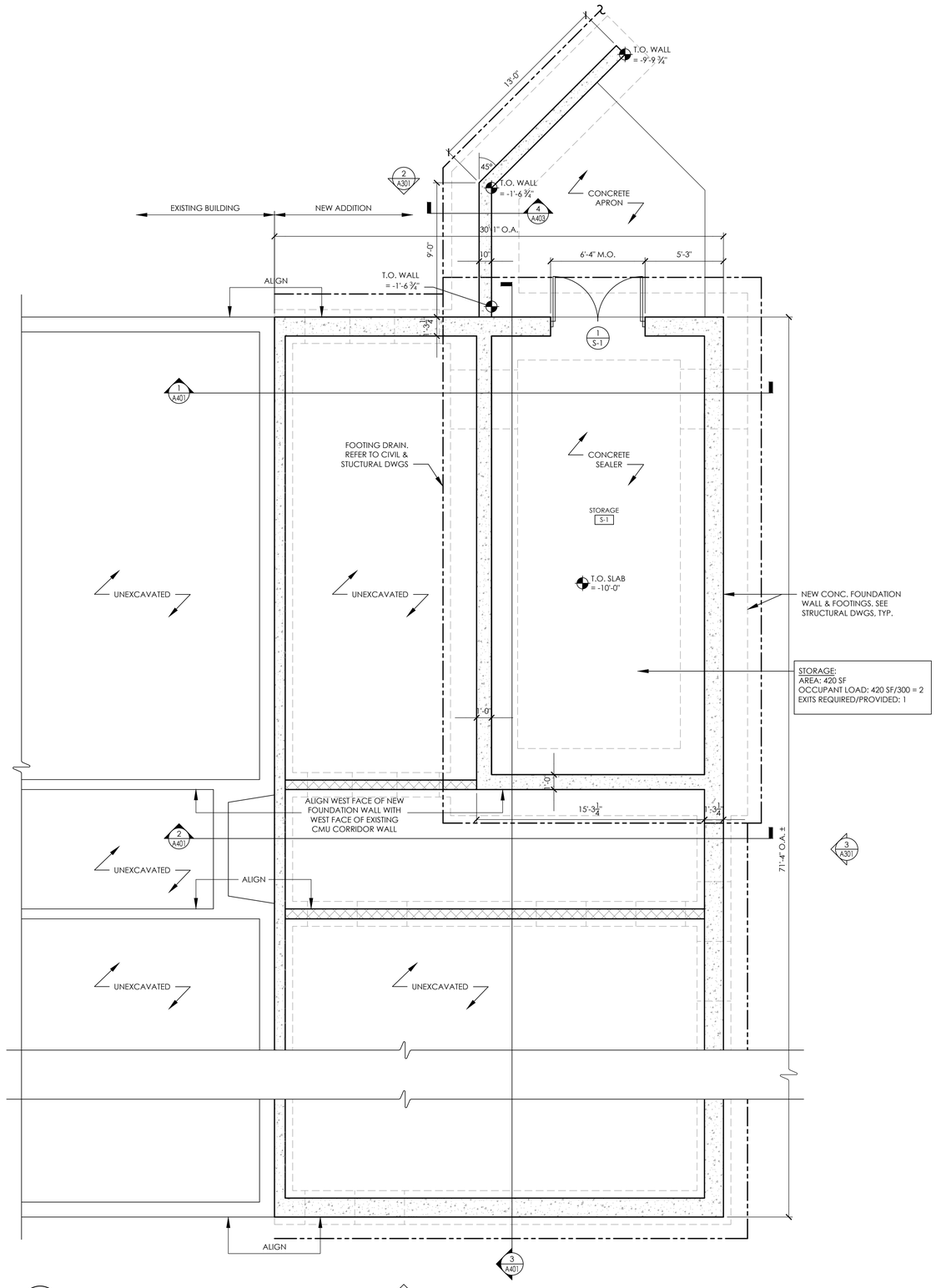
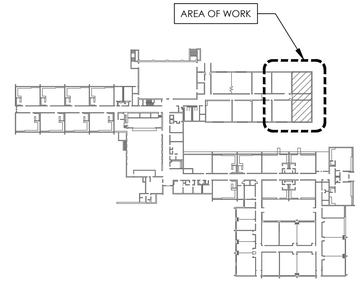


1 A201 BASEMENT FLOOR NEW WORK PLAN

SCALE: 1/4" = 1'-0"

GENERAL CONSTRUCTION NOTES:

1. ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF EXISTING AND NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS PRIOR TO TO COMMENCEMENT OF WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING CONSTRUCTION NOT REMOVED UNDER THE SCOPE OF WORK. ANY DAMAGE WILL BE REPAIRED TO THE OWNER/ARCHITECT'S SATISFACTION AT NO COST TO THE OWNER.
3. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE LEFT BROOMED CLEAN AT END OF EACH DAY.
4. THE CONTRACTOR SHALL PROVIDE DUST CONTROL BARRIERS AT ALL AREAS OF CONSTRUCTION.
5. THE CONTRACTOR SHALL PATCH ALL SURFACES WHERE EXISTING MATERIALS HAVE BEEN DISTURBED TO MATCH AND BE FLUSH WITH ADJACENT CONSTRUCTION AT ALL FLOOR, WALL, AND CEILING LOCATIONS.
6. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR SEQUENCING OF WORK.



KEY PLAN
SCALE: N.T.S.

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CLASSROOM ADDITION PROJECT

SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	RG	MJ

SCALE: AS NOTED

SHEET TITLE: BASEMENT FLOOR NEW WORK PLAN

PROJECT NUMBER: 14428.11

BES
A201
DRAWING NUMBER

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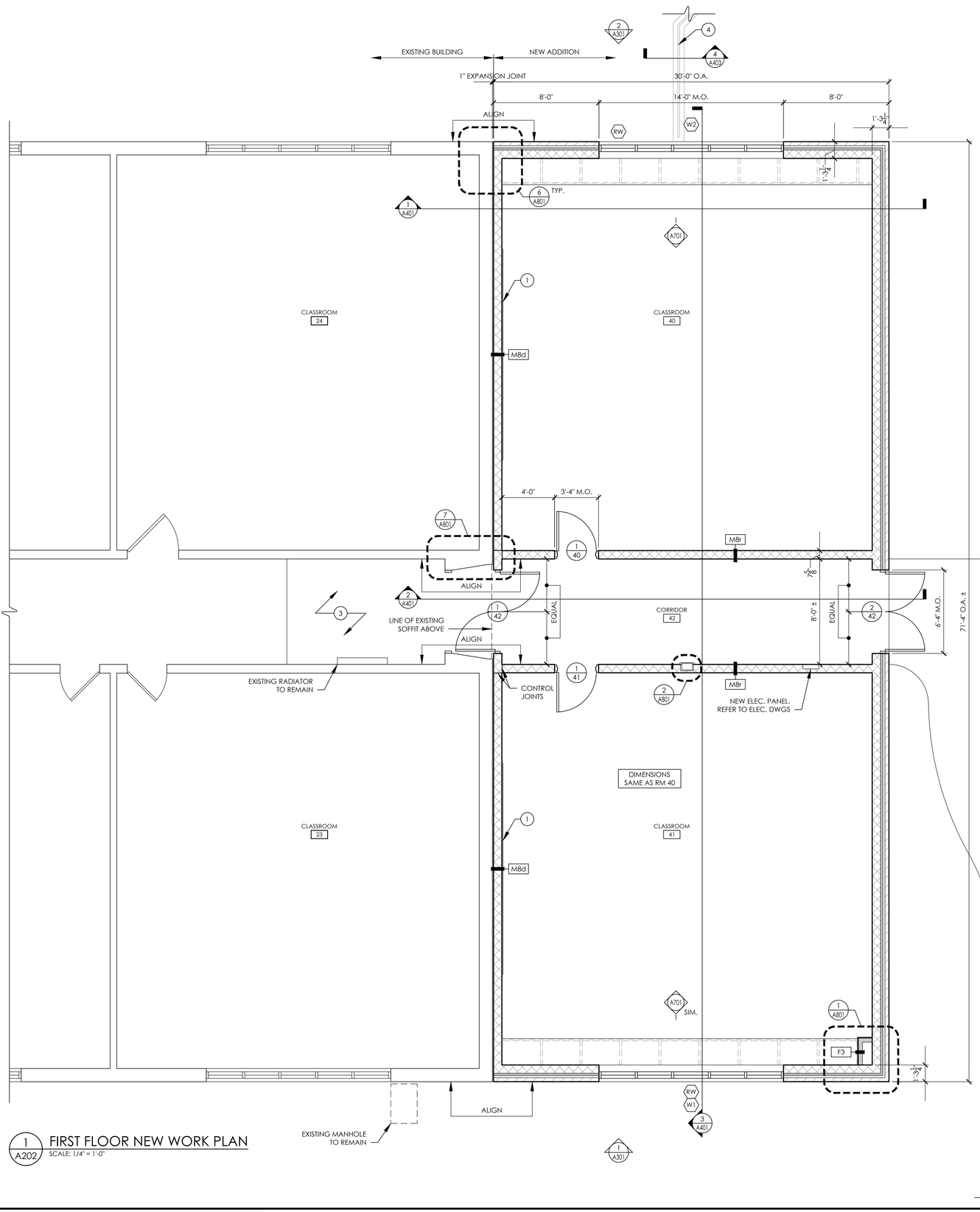


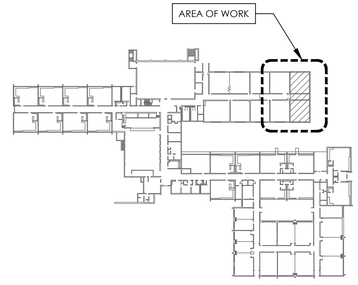
1 A202 FIRST FLOOR NEW WORK PLAN
SCALE: 1/4" = 1'-0"

NEW WORK KEYNOTES:

1. NEW MARKERBOARD. SEE 3/A701 FOR MORE INFORMATION.
2. NEW SIDEWALK. REFER TO CIVIL DRAWINGS.
3. INFILL EXISTING FLOOR MAT RECESS WITH LIKE CONSTRUCTION TO MATCH EXISTING FINISH FLOORING.
4. RETAINING WALL BELOW. SEE 1/A201 FOR MORE INFORMATION.

GENERAL CONSTRUCTION NOTES:

1. ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF EXISTING AND NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS PRIOR TO TO COMMENCEMENT OF WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING CONSTRUCTION NOT REMOVED UNDER THE SCOPE OF WORK. ANY DAMAGE WILL BE REPAIRED TO THE OWNER/ARCHITECT'S SATISFACTION AT NO COST TO THE OWNER.
3. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE LEFT BROOMED CLEAN AT END OF EACH DAY.
4. THE CONTRACTOR SHALL PROVIDE DUST CONTROL BARRIERS AT ALL AREAS OF CONSTRUCTION.
5. THE CONTRACTOR SHALL PATCH ALL SURFACES WHERE EXISTING MATERIALS HAVE BEEN DISTURBED TO MATCH AND BE FLUSH WITH ADJACENT CONSTRUCTION AT ALL FLOOR, WALL, AND CEILING LOCATIONS.
6. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR SEQUENCING OF WORK.



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SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	RG	MJ

SCALE: AS NOTED
SHEET TITLE: FIRST FLOOR NEW WORK PLAN

PROJECT NUMBER: 14428.11

BES
A202
DRAWING NUMBER

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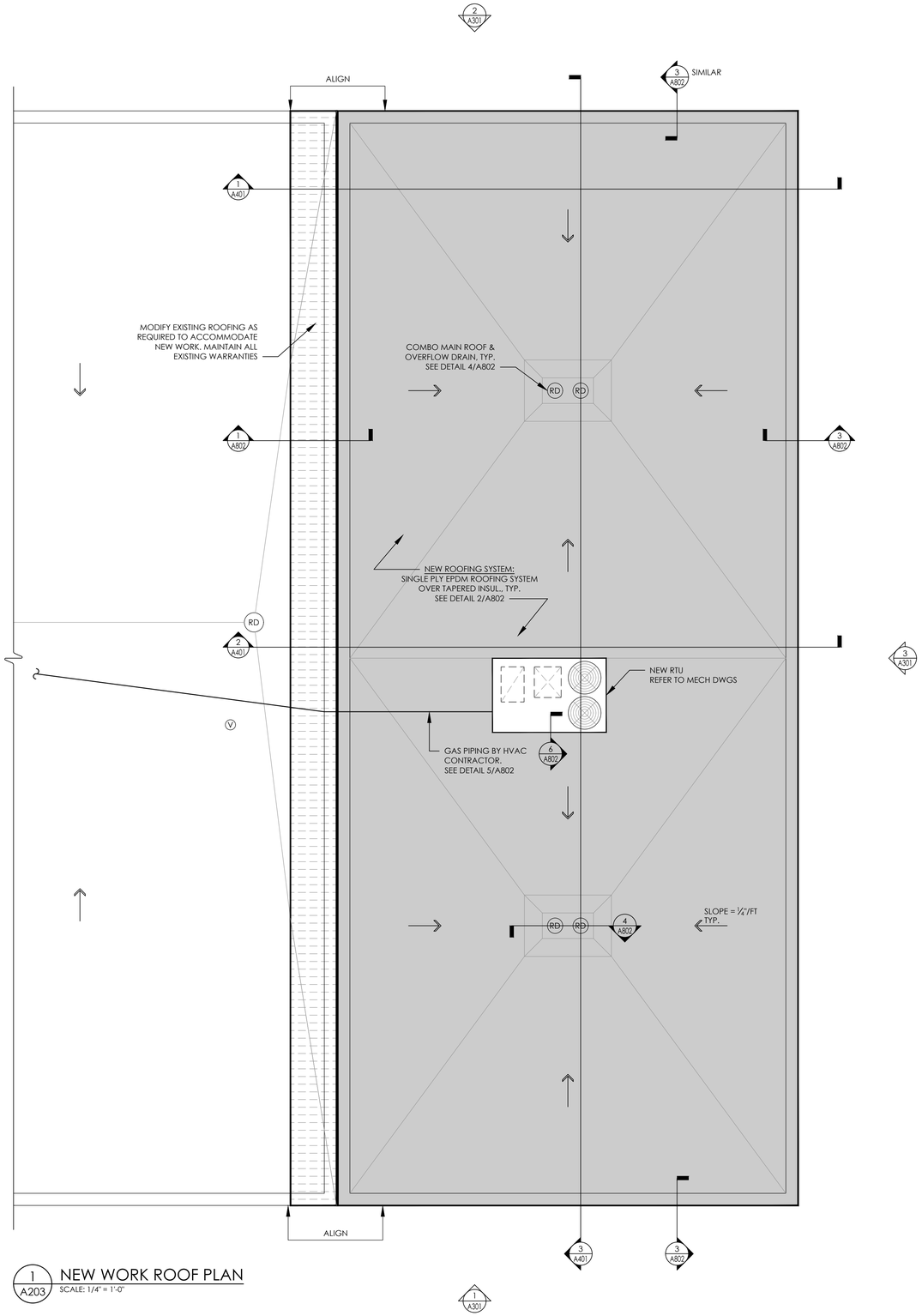


1 A203 NEW WORK ROOF PLAN
SCALE: 1/4" = 1'-0"

GENERAL CONSTRUCTION NOTES:

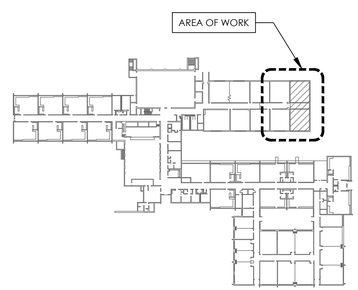
1. ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF EXISTING AND NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS PRIOR TO TO COMMENCEMENT OF WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING CONSTRUCTION NOT REMOVED UNDER THE SCOPE OF WORK. ANY DAMAGE WILL BE REPAIRED TO THE OWNER/ARCHITECT'S SATISFACTION AT NO COST TO THE OWNER.
3. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE LEFT BROOMED CLEAN AT END OF EACH DAY.
4. THE CONTRACTOR SHALL PROVIDE DUST CONTROL BARRIERS AT ALL AREAS OF CONSTRUCTION.
5. THE CONTRACTOR SHALL PATCH ALL SURFACES WHERE EXISTING MATERIALS HAVE BEEN DISTURBED TO MATCH AND BE FLUSH WITH ADJACENT CONSTRUCTION AT ALL FLOOR, WALL, AND CEILING LOCATIONS.
6. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR SEQUENCING OF WORK.

ROOF LEGEND

- (V) VENT
- (RD) ROOF DRAIN. SEE DETAIL 4/A802
- EXISTING ROOFING TO BE MODIFIED AS REQUIRED TO ACCOMMODATE NEW WORK
- NEW ROOFING SYSTEM. SEE DETAIL 2/A802

GENERAL ROOFING NOTES:

1. THE EXISTING CONDITIONS INDICATED ON THIS ROOF PLAN ARE APPROXIMATE AS BASED ON FIELD OBSERVATIONS. THE CONTRACTOR SHALL VERIFY ALL SUCH CONDITIONS AND DIMENSIONS AT THE SITE PRIOR TO SUBMITTING A BID.
2. THE CONTRACTOR IS TO PROVIDE PRESERVATIVE-TREATED WOOD BLOCKING AS REQUIRED TO ACCOMMODATE THE INSULATION THICKNESS AT THE ROOF EDGE. THE FASCIA HEIGHT SHALL NOT VARY.
3. THE CONTRACTOR IS RESPONSIBLE FOR EXTENDING UTILITY LINES, DUCTWORK, PIPING, ETC. TO ALL EQUIPMENT AS REQUIRED.
4. THE INSTALLED ROOFING SYSTEM SHALL MEET ALL REQUIREMENTS FOR CLASSIFICATIONS AS A UL CLASS"A" ROOF ASSEMBLY.
5. ROOF INSULATION THICKNESS SHALL PROVIDE A MINIMUM R-VALUE OF R-30.
6. ALL ROOF SLOPES SHALL BE 1/4" PER FOOT MINIMUM.
7. ALL SADDLES AND CRICKETS ARE TO HAVE A MIN 1/4" PER FOOT SLOPE. PROVIDE CRICKETS FOR DIVERSION OF WATER AT ALL CURBS, RAILS, ETC. WHICH RUN PERPENDICULAR TO THE SLOPE OF INSULATION.
8. THE CONTRACTOR SHALL COORDINATE ROOFING WORK WITH THE OWNER'S OPERATIONS SCHEDULE.
9. PROVIDE PRE-MANUFACTURED ALUMINUM FASCIA FULL LENGTH OF ROOF EDGES. PROVIDE MANUFACTURER'S RECOMMENDED FASTENERS, SEALANT AND ADHESIVES.
10. CONTRACTOR TO PROTECT ALL ADJACENT SURFACES NOT SCHEDULED FOR WORK AND TO REPAIR ANY DAMAGED AREAS AS A RESULT OF CONTRACTOR WORK AT NO ADDITIONAL COST TO THE OWNER.
11. MAINTAIN POSITIVE DRAINAGE TO ROOF DRAINS. UPON COMPLETION OF THE WORK, SNAKE-OUT ALL EXISTING ROOF DRAINS AND PIPING AND VERIFY FREE-FLOWING CONDITION. CONTRACTOR TO CONFIRM ALL DRAIN LINES ARE OPEN AND FREE-FLOWING PRIOR TO START OF CONSTRUCTION.
12. THE ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WATER TIGHTNESS AND PROVIDE PROTECTION AT ALL ROOF OPENINGS AT THE END OF EACH CONSTRUCTION DAY AND ONSET OF INCLEMENT WEATHER.
13. CONTRACTOR SHALL PROVIDE ALL SERVICES AND MATERIALS AS NECESSARY TO PROVIDE NEW ROOFING SYSTEMS.



KEY PLAN
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12/18/20	RG	MJ

SCALE: AS NOTED

SHEET TITLE
NEW WORK
ROOF PLAN

PROJECT NUMBER
14428.11

BES
A203
DRAWING NUMBER

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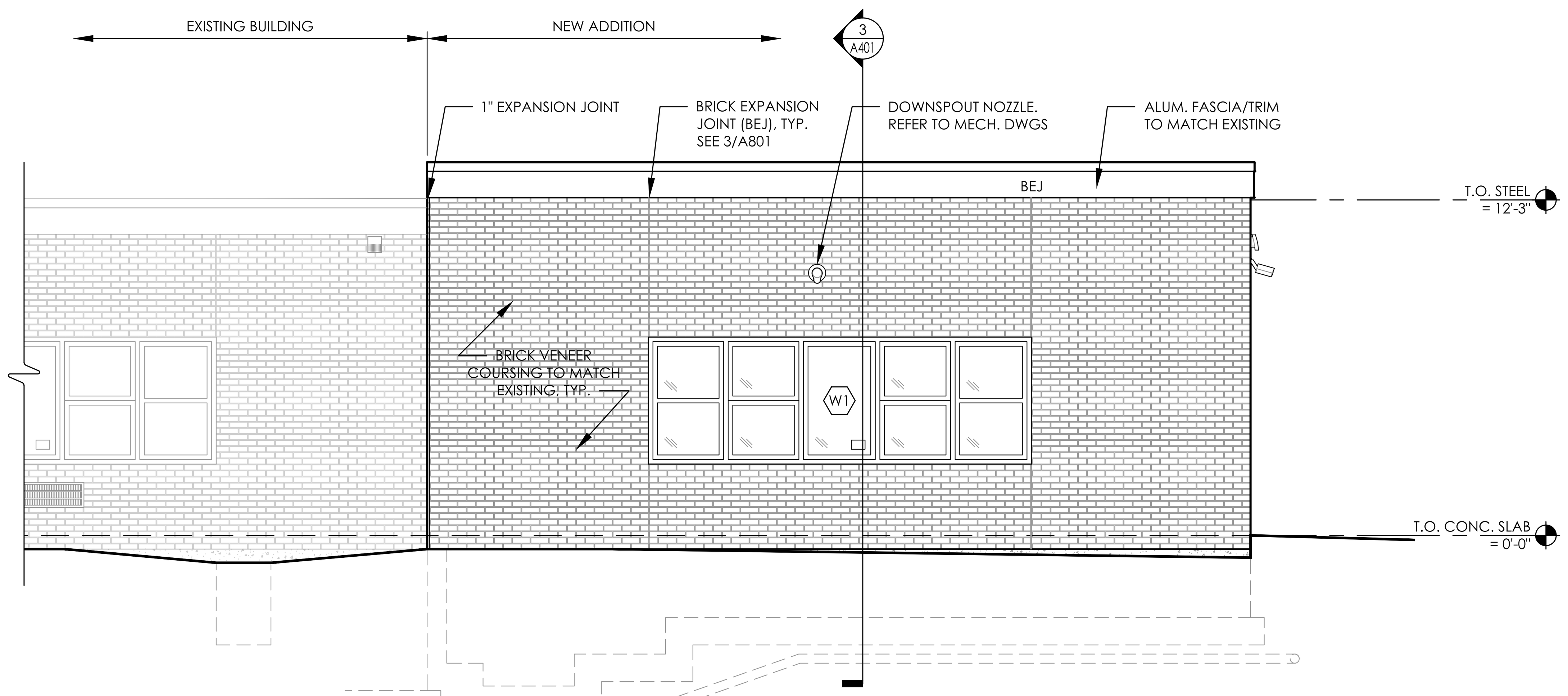

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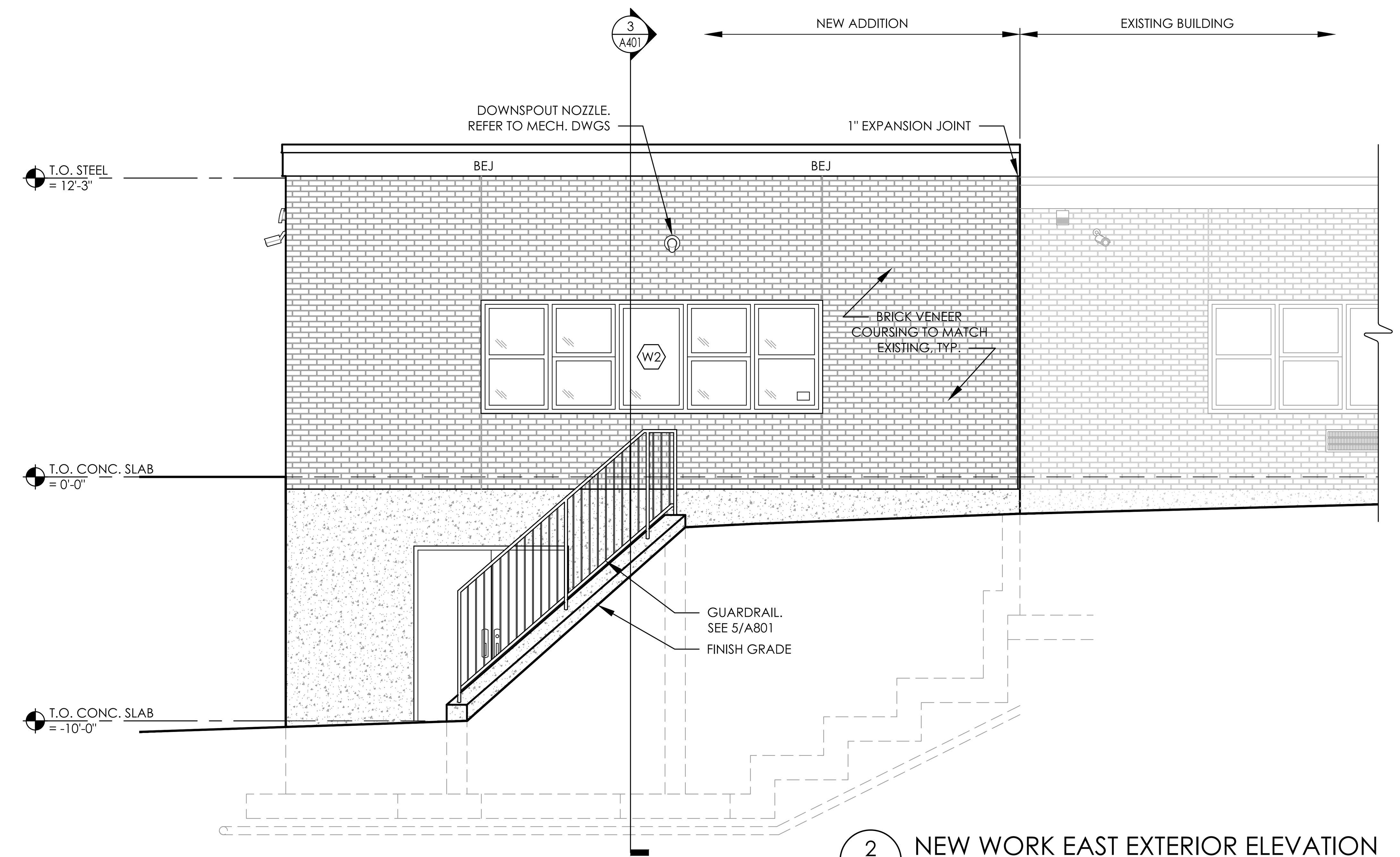
A301
NEW WORK WEST EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



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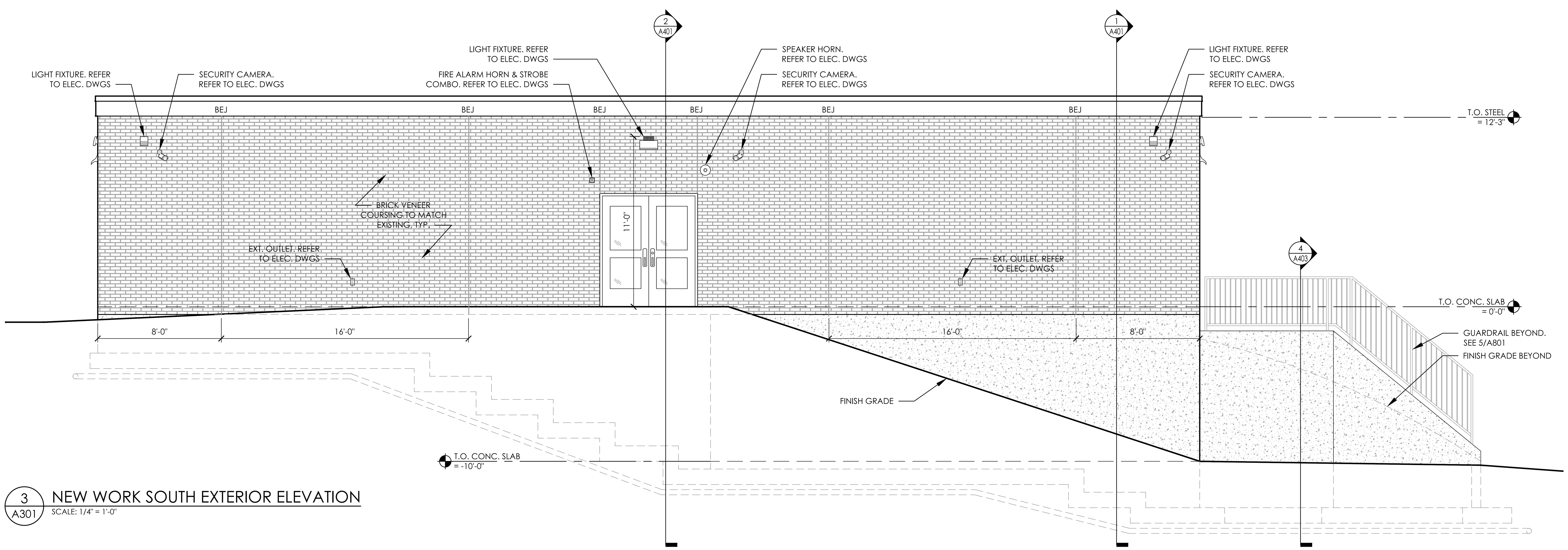

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A301
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PROJECT NUMBER: 14428.11

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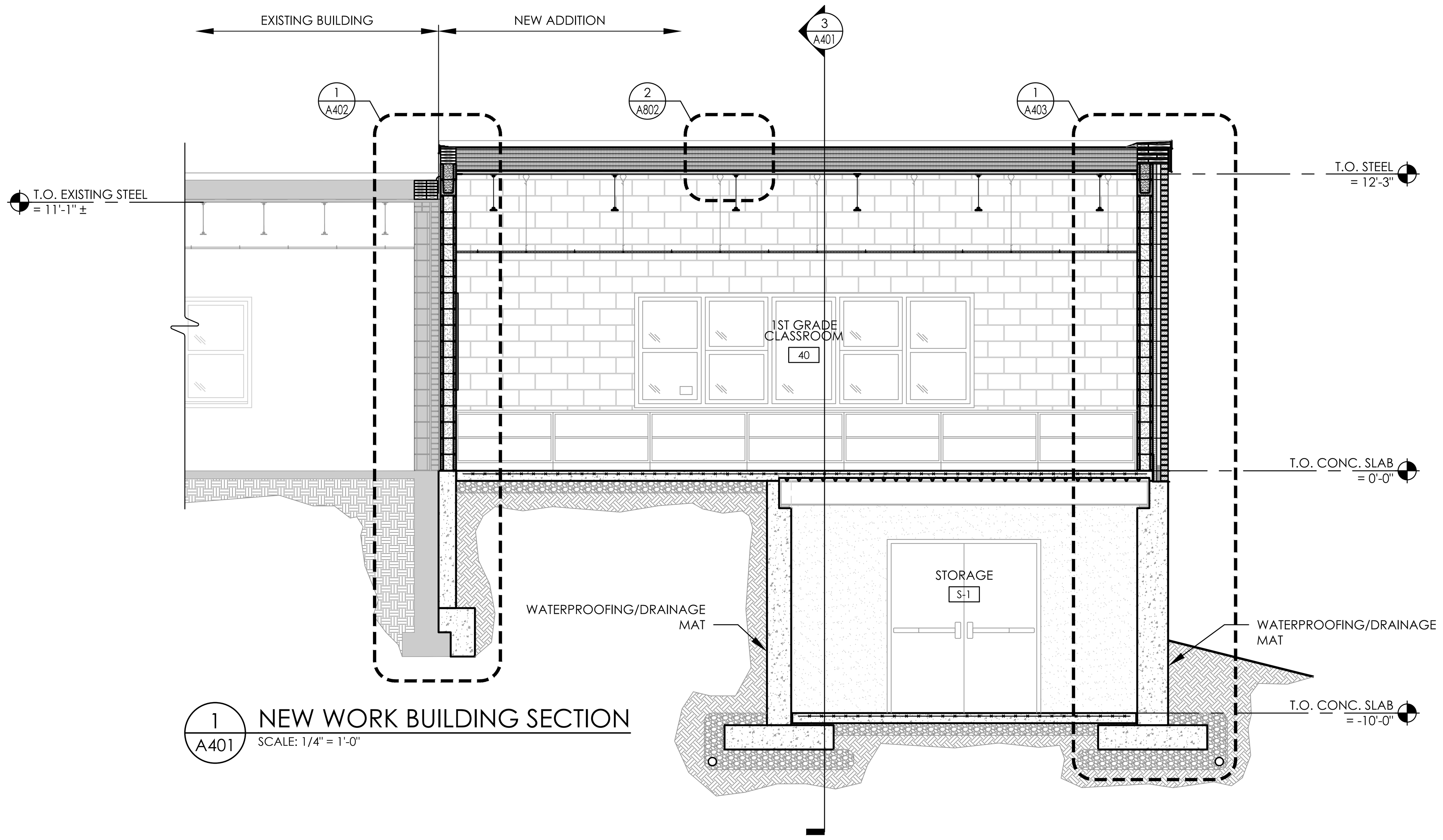

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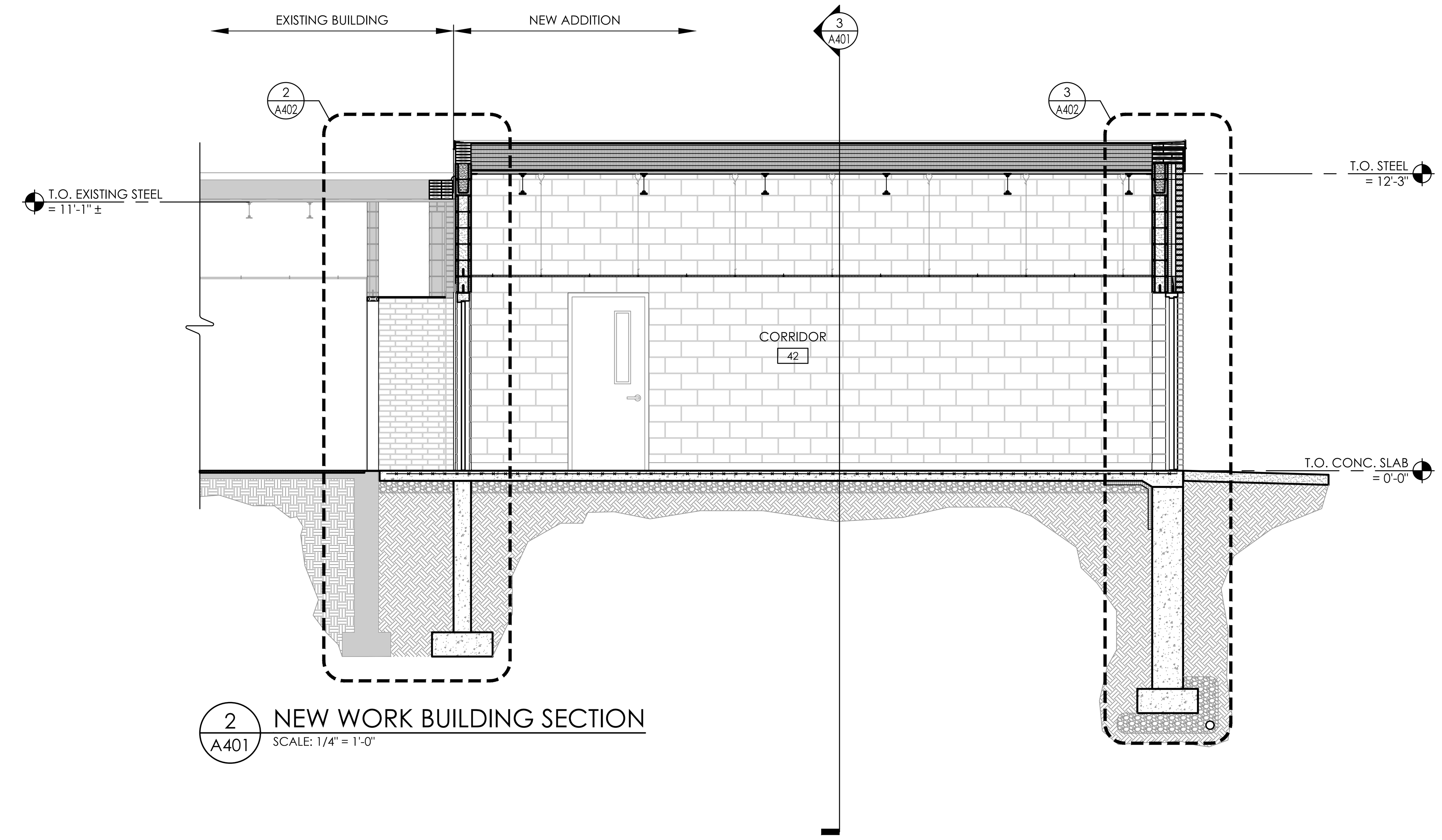

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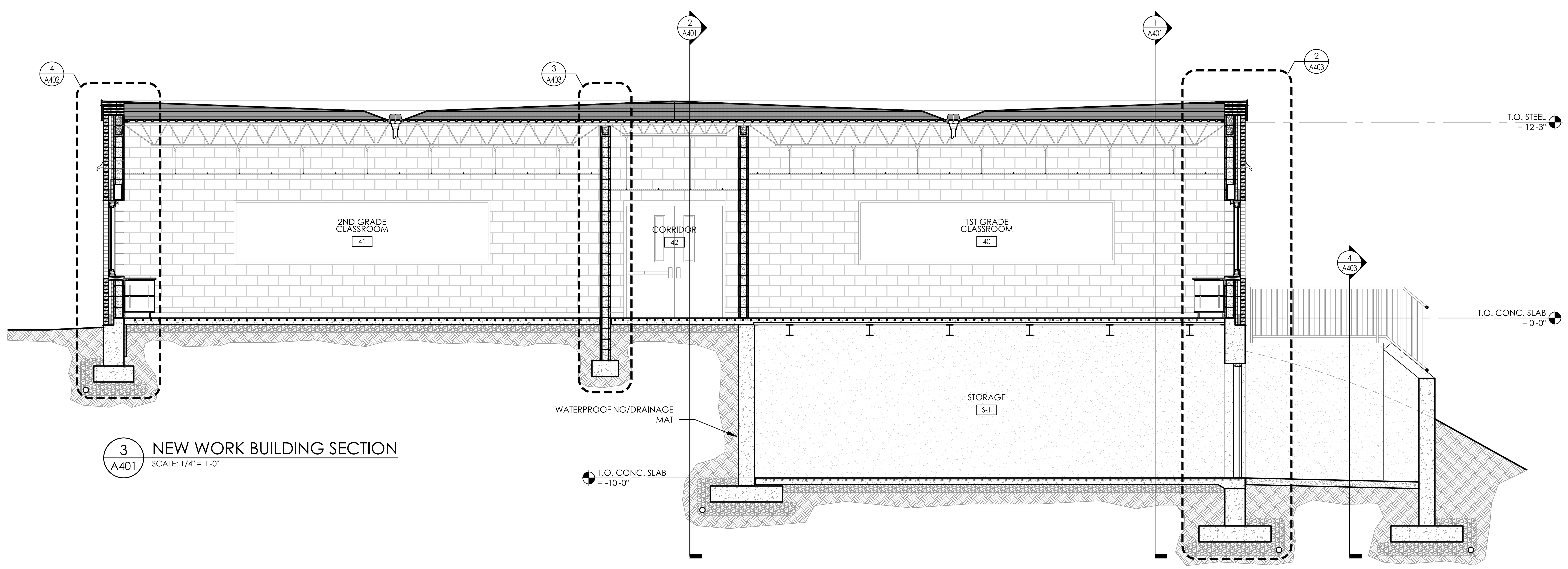

3 A401 NEW WORK BUILDING SECTION
SCALE: 1/4" = 1'-0"

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SHEET TITLE
NEW WORK BUILDING SECTIONS

PROJECT NUMBER
14428.11

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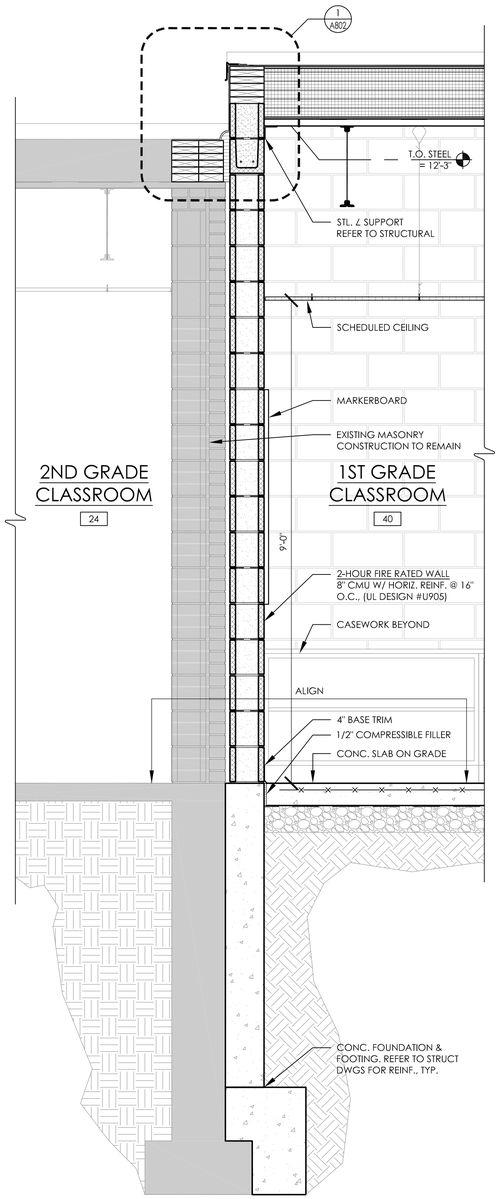

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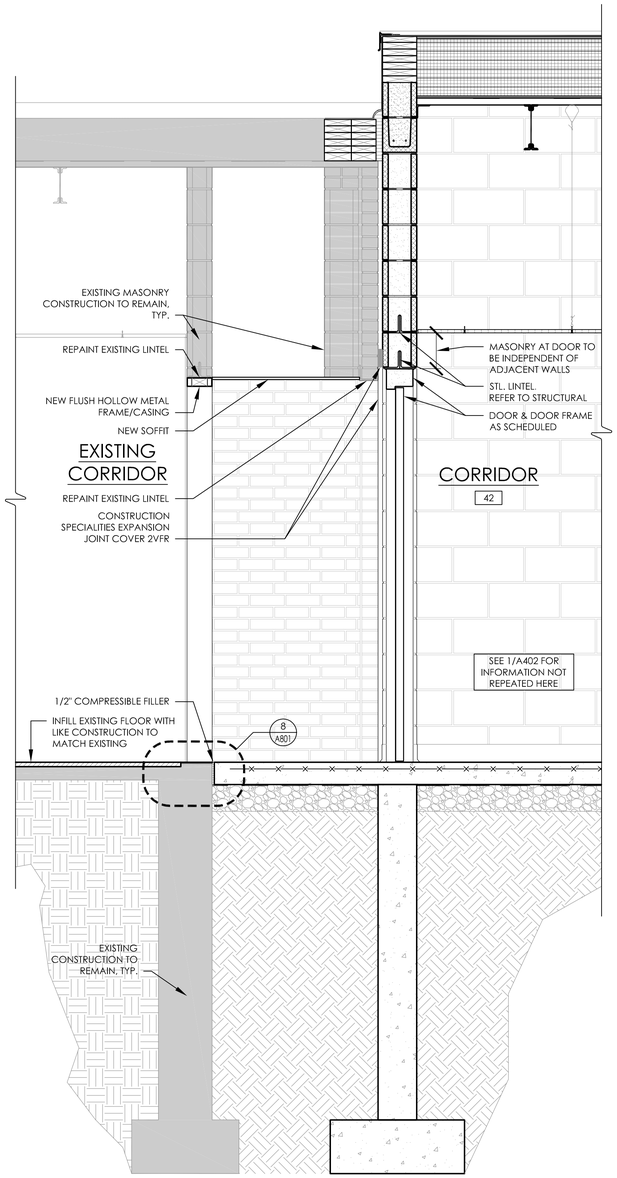

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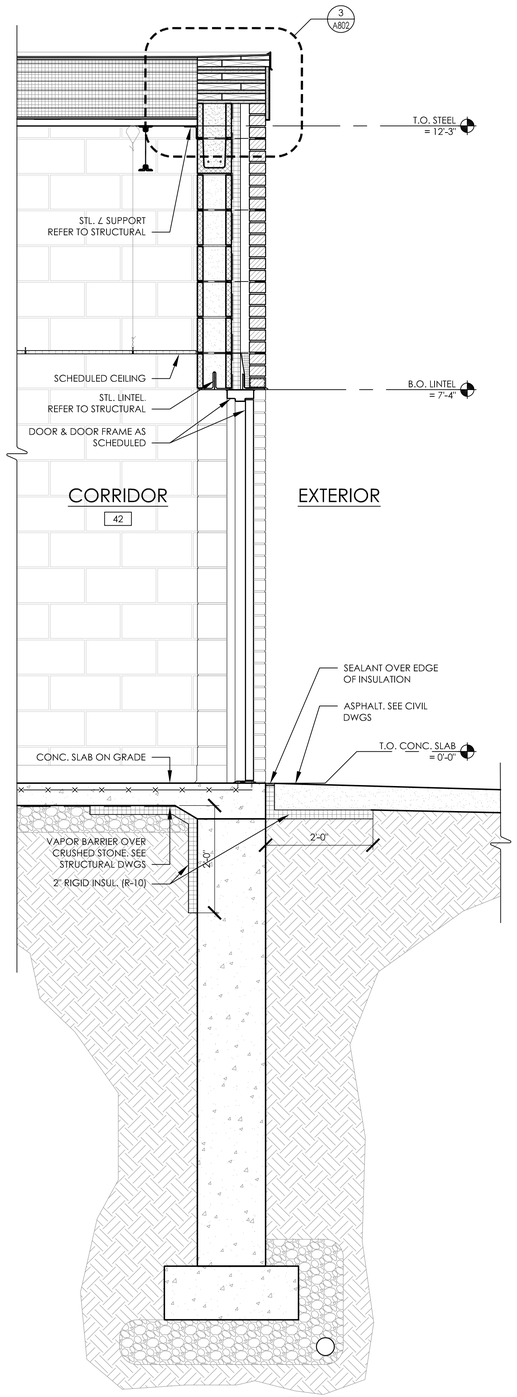

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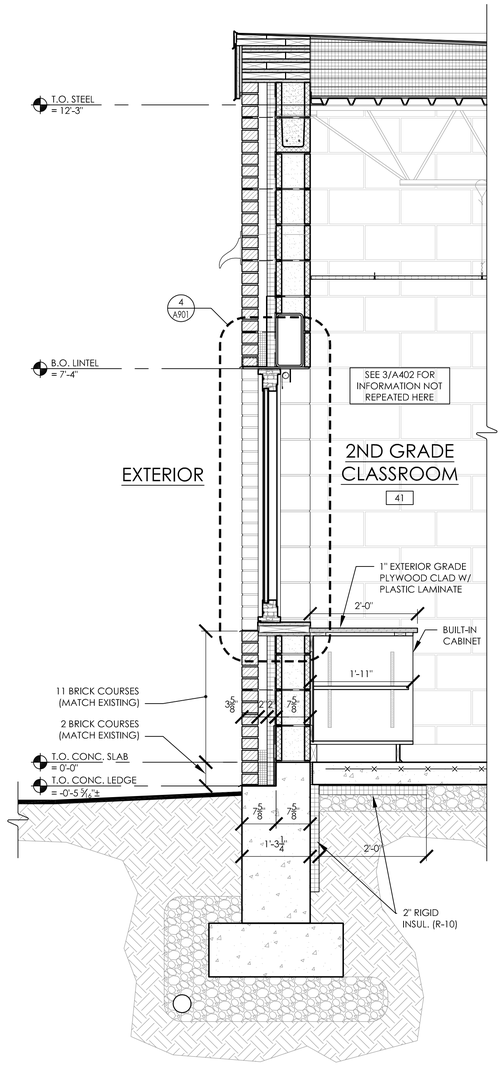

4 A402 NEW WORK WALL SECTION
SCALE: 3/4" = 1'-0"

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NO.	DATE	DESCRIPTION
1	4/23/2021	SED COMMENTS

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SHEET TITLE
NEW WORK
WALL SECTIONS

PROJECT NUMBER
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BES
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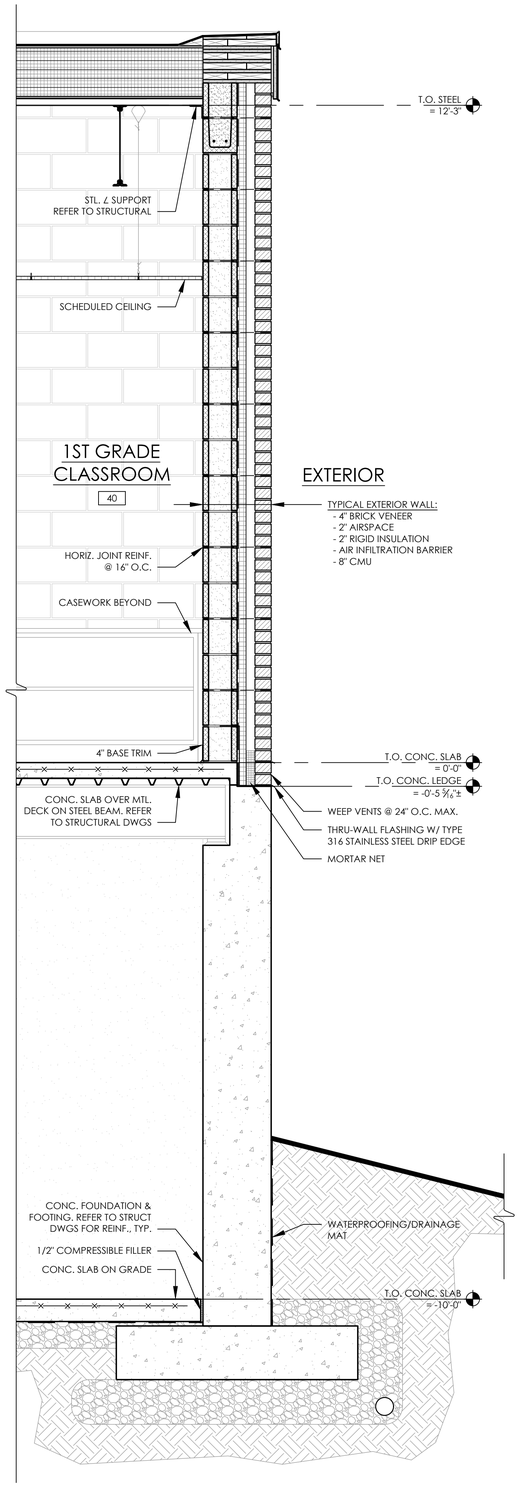

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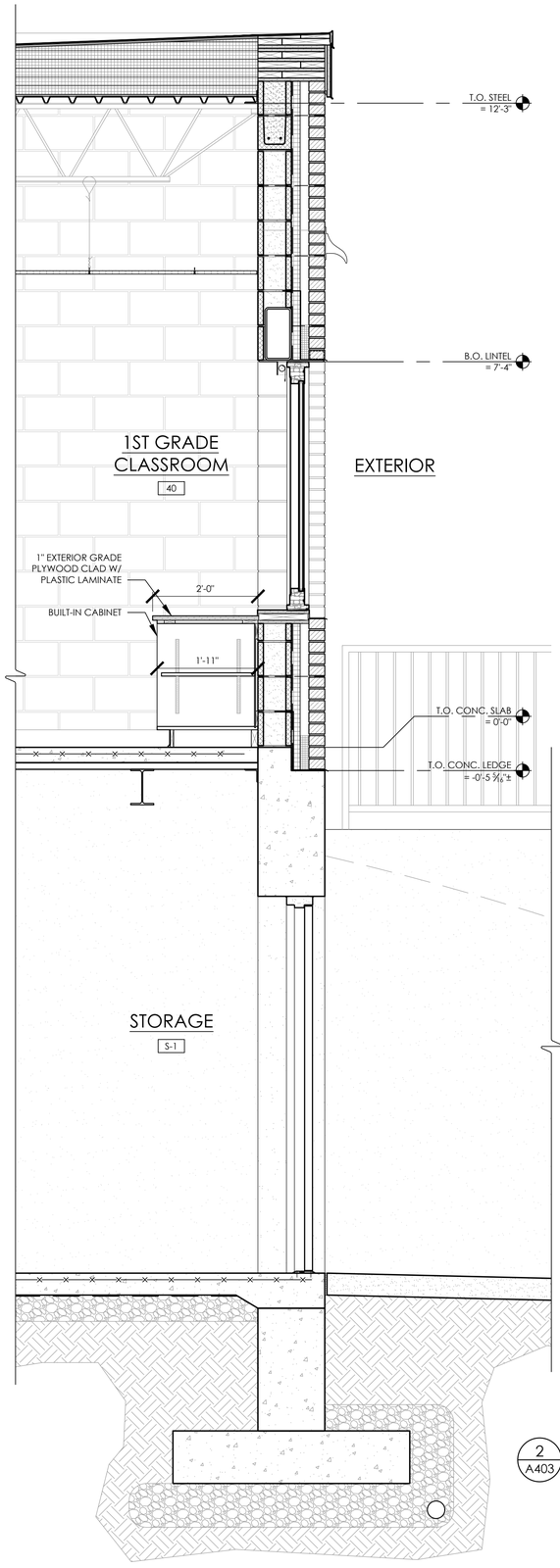

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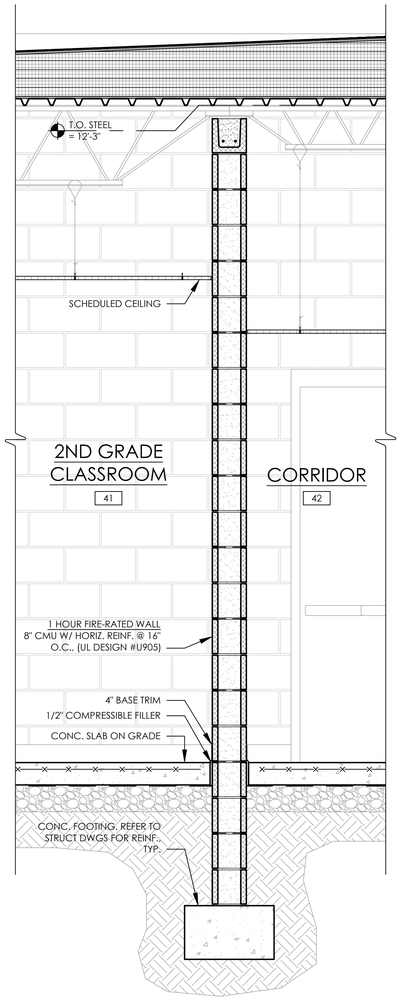

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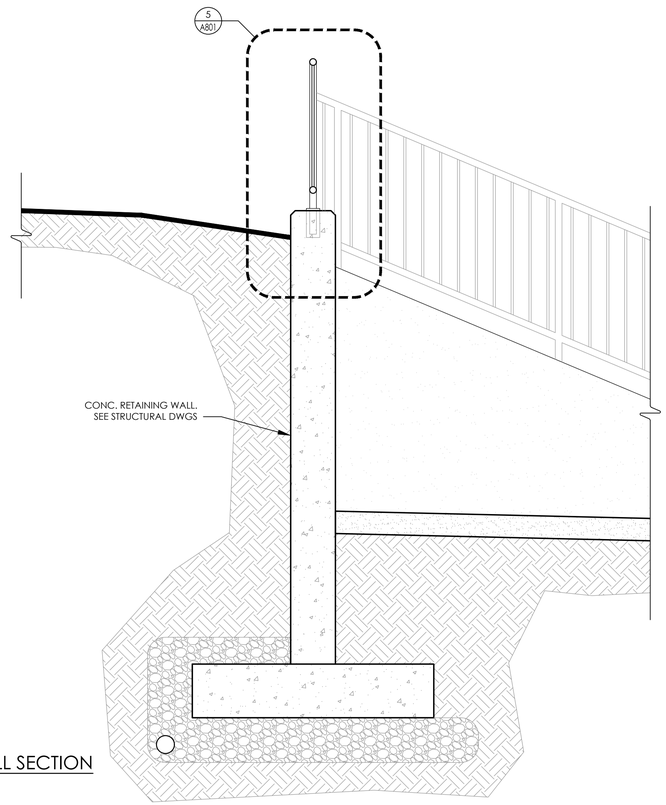

4 A403 NEW WORK WALL SECTION
SCALE: 3/4" = 1'-0"

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NEW WORK
WALL SECTIONS

PROJECT NUMBER
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BES
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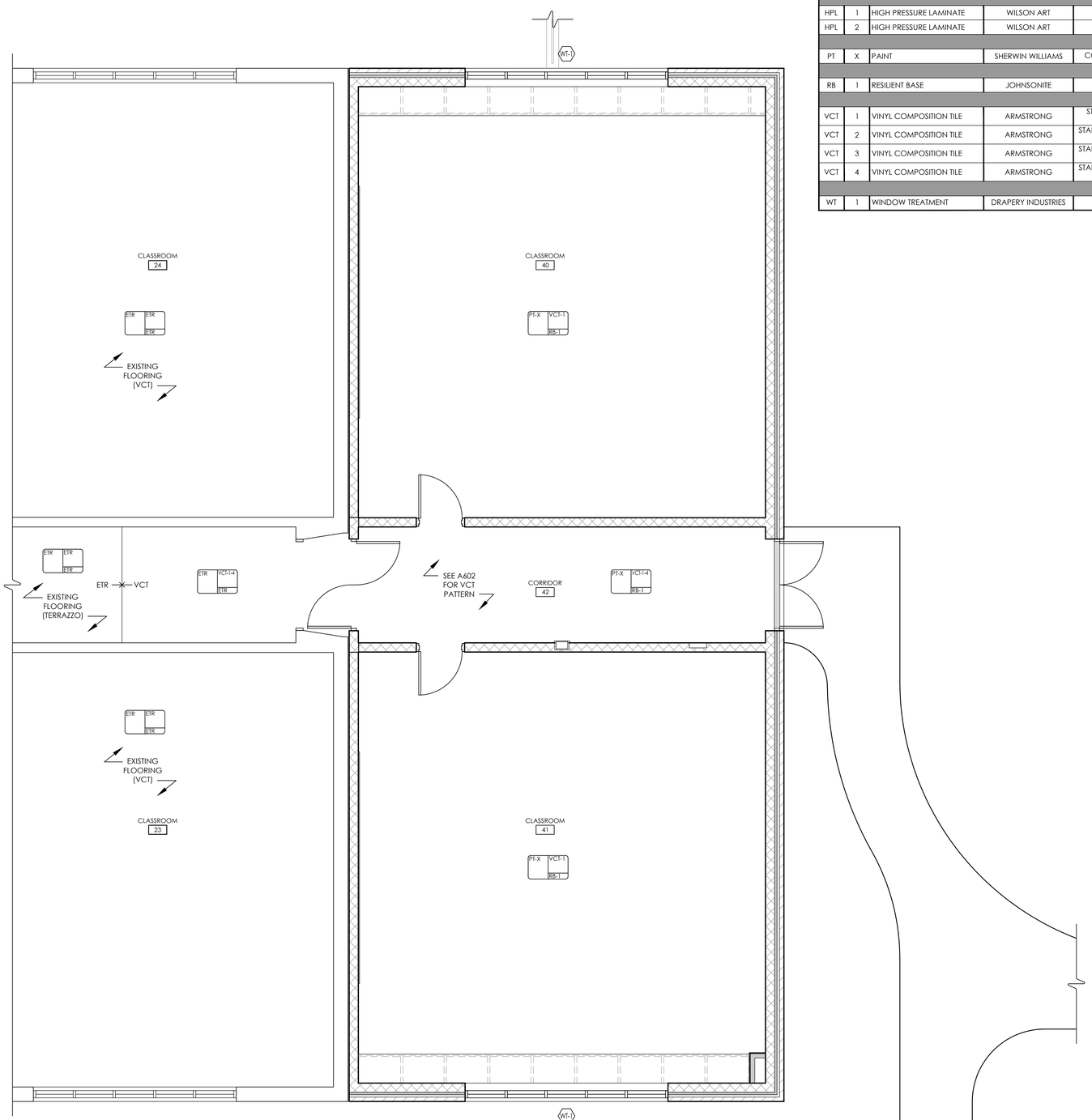


1 / A601 FIRST FLOOR NEW WORK FINISH PLAN
SCALE: 1/4" = 1'-0"

COLOR & FINISH SCHEDULE

FINISH	CODE	ITEM	MANUFACTURER	STYLE/PATTERN	COLOR	SIZE	ADDITIONAL REQUIREMENTS	REMARKS
ACT	1	ACOUSTICAL CEILING TILE	ARMSTRONG	FINE FISSURED #1754 HIGH NRC	WHITE	24" X 24" X 5/8"	NRC: .75, CAC: .35, .86 LIGHT REFLECTANCE, CLASS A, 15/16" GRID WITH PRELUDE SUSPENSION SYSTEM	STANDARD CEILING TILE
HPL	1	HIGH PRESSURE LAMINATE	WILSON ART	MATCH EXISTING	MATCH EXISTING	-	CASEWORK COUNTERTOPS	CLASSROOMS
HPL	2	HIGH PRESSURE LAMINATE	WILSON ART	MATCH EXISTING	MATCH EXISTING	-	CASEWORK	CLASSROOMS
PT	X	PAINT	SHERWIN WILLIAMS	COLOR(S) TO BE SELECTED BY ARCHITECT	COLOR(S) TO BE SELECTED BY ARCHITECT	-	-	CLASSROOMS/CORRIDOR/WALLS/DOOR FRAMES
RB	1	RESILIENT BASE	JOHNSONITE	TRADITIONAL WALL BASE	PEWTER 38	4" HIGH	1/8" OVERALL THICKNESS	-
VCT	1	VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON MULTICOLOR WITH DIAMOND 10 TECHNOLOGY	HARLEQUIN WHITE Z2505	12" X 12" X 1/8"	THROUGH PATTERN VINYL COMPOSITION TILE, 125 P.S.I.	FIELD TILE
VCT	2	VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE WITH DIAMOND 10 TECHNOLOGY	CHERRY RED Z1816	12" X 12" X 1/8"	THROUGH PATTERN VINYL COMPOSITION TILE, 125 P.S.I.	ACCENT TILE
VCT	3	VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE WITH DIAMOND 10 TECHNOLOGY	GOLDEN Z1878	12" X 12" X 1/8"	THROUGH PATTERN VINYL COMPOSITION TILE, 125 P.S.I.	ACCENT TILE
VCT	4	VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE WITH DIAMOND 10 TECHNOLOGY	VICTORIA BLUE Z9230	12" X 12" X 1/8"	THROUGH PATTERN VINYL COMPOSITION TILE, 125 P.S.I.	ACCENT TILE
WT	1	WINDOW TREATMENT	DRAPERY INDUSTRIES	E-SCREEN, 5% OPACITY	WHITE/PEARL 002007	-	-	CLASSROOMS

FINISH PLAN GENERAL NOTES:

1. ALL FLOOR FINISHES SHALL TRANSITION AT CENTERLINE OF DOOR, UNLESS OTHERWISE NOTED.
2. ALL LOUVERS, VENTS, GRILLES AND OTHER MISC. MECHANICAL & ELECTRICAL DEVICES ARE TO BE PAINTED TO MATCH SURFACE ON WHICH THEY APPEAR, UNLESS OTHERWISE NOTED.
3. ALL HOLLOW METAL DOORS & DOOR FRAMES WITHIN SCOPE OF WORK TO BE PAINTED. COLOR(S) TO BE SELECTED BY ARCHITECT.
4. WHERE KICKSPACES OCCUR AT MILLWORK, FLOOR FINISH SHOWN ON PLANS SHALL RUN UNDERNEATH KICKSPACE UNLESS OTHERWISE NOTED.
5. REFER TO A603 FOR CEILING TYPES.

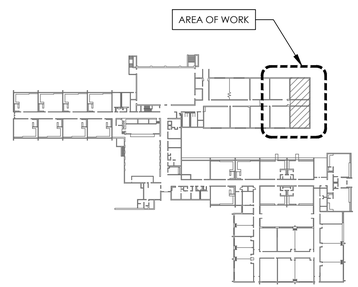
FINISH SYMBOLS LEGEND & ABBREVIATIONS:

WALL FINISH(ES) — PT-1, PT-2, PT-3, PT-4 — FLOOR FINISH(ES) — VCT-1, VCT-2, RB-1 — BASE FINISH

VCT-8 — FINISH INDICATOR

ETR	EXISTING TO REMAIN
PT	PAINT
RB	RUBBER BASE
VCT	VINYL COMPOSITION TILE

VCT — ETR — FLOORING TRANSITION



KEY PLAN
SCALE: N.T.S.

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DATE	DRAWN	CHECKED
12/18/20	RG	MJ

SCALE: AS NOTED

SHEET TITLE: FIRST FLOOR NEW WORK FINISH PLAN

PROJECT NUMBER: 14428.11

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A601
DRAWING NUMBER

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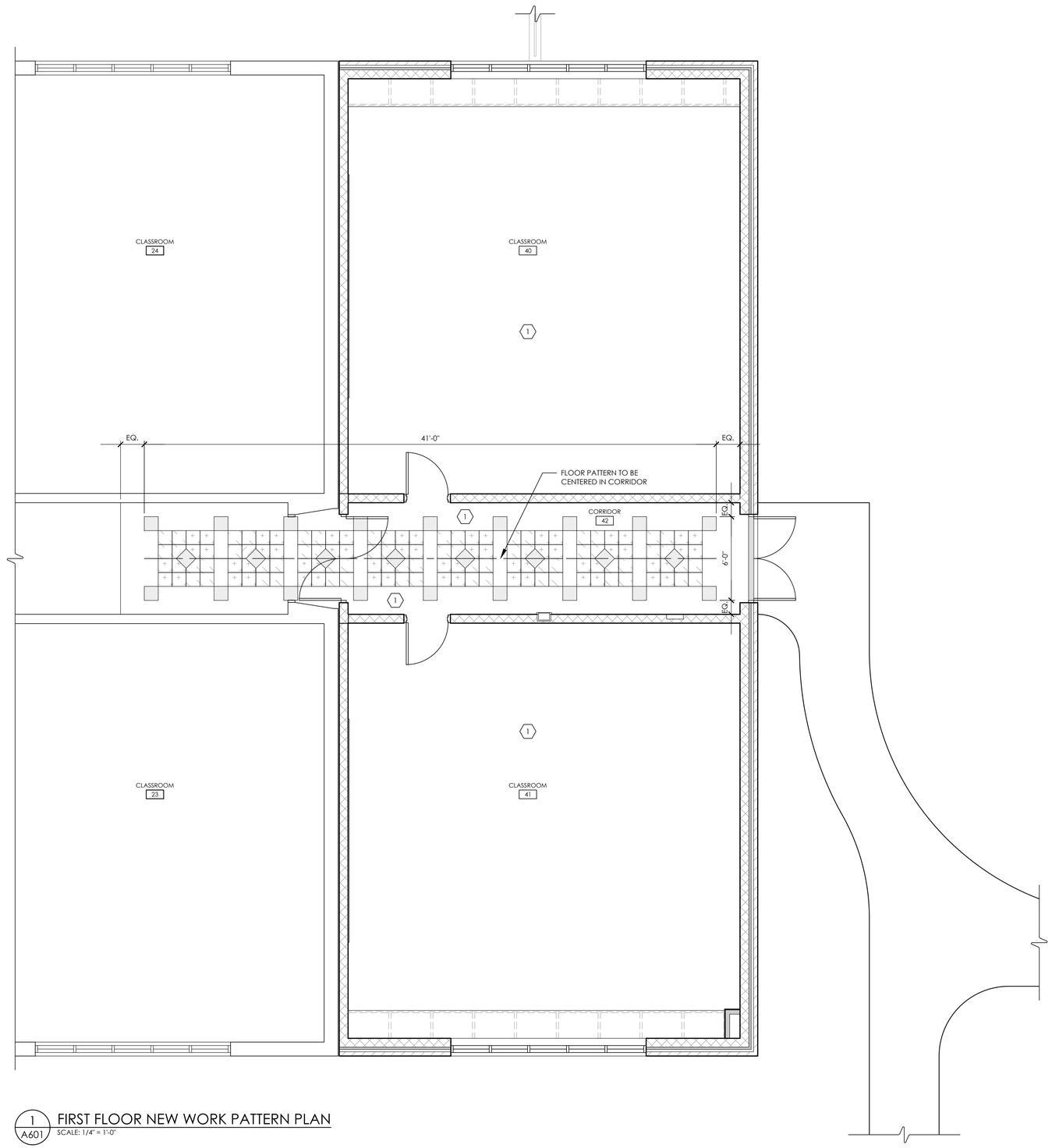


1 A601 FIRST FLOOR NEW WORK PATTERN PLAN
SCALE: 1/4" = 1'-0"

FLOOR PATTERNING GENERAL NOTES

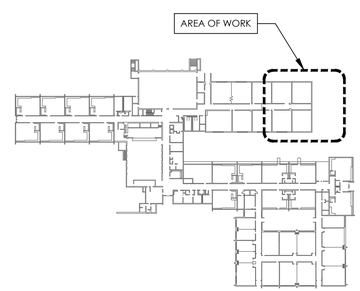
1. ALL FLOOR FINISHES SHALL TRANSITION AT CENTERLINE OF DOOR, UNLESS OTHERWISE NOTED.
2. WHERE KICKSPACES OCCUR AT MILLWORK, FLOOR FINISH SHOWN ON PLANS SHALL RUN UNDERNEATH KICKSPACE AS WELL.

FLOOR PATTERNING KEY NOTES

1 PROVIDE VCT-1 IN QUARTER-TURN INSTALLATION.
NEW VCT TO ALIGN FLUSH WITH ETR TERRAZZO.

FLOOR SYMBOL LEGEND

VCT-1
VCT-2
VCT-3
VCT-4



KEY PLAN
SCALE: N.T.S.

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SCALE: AS NOTED

SHEET TITLE
FIRST FLOOR NEW WORK PATTERN PLAN

PROJECT NUMBER
14428.11

BES
A602
DRAWING NUMBER

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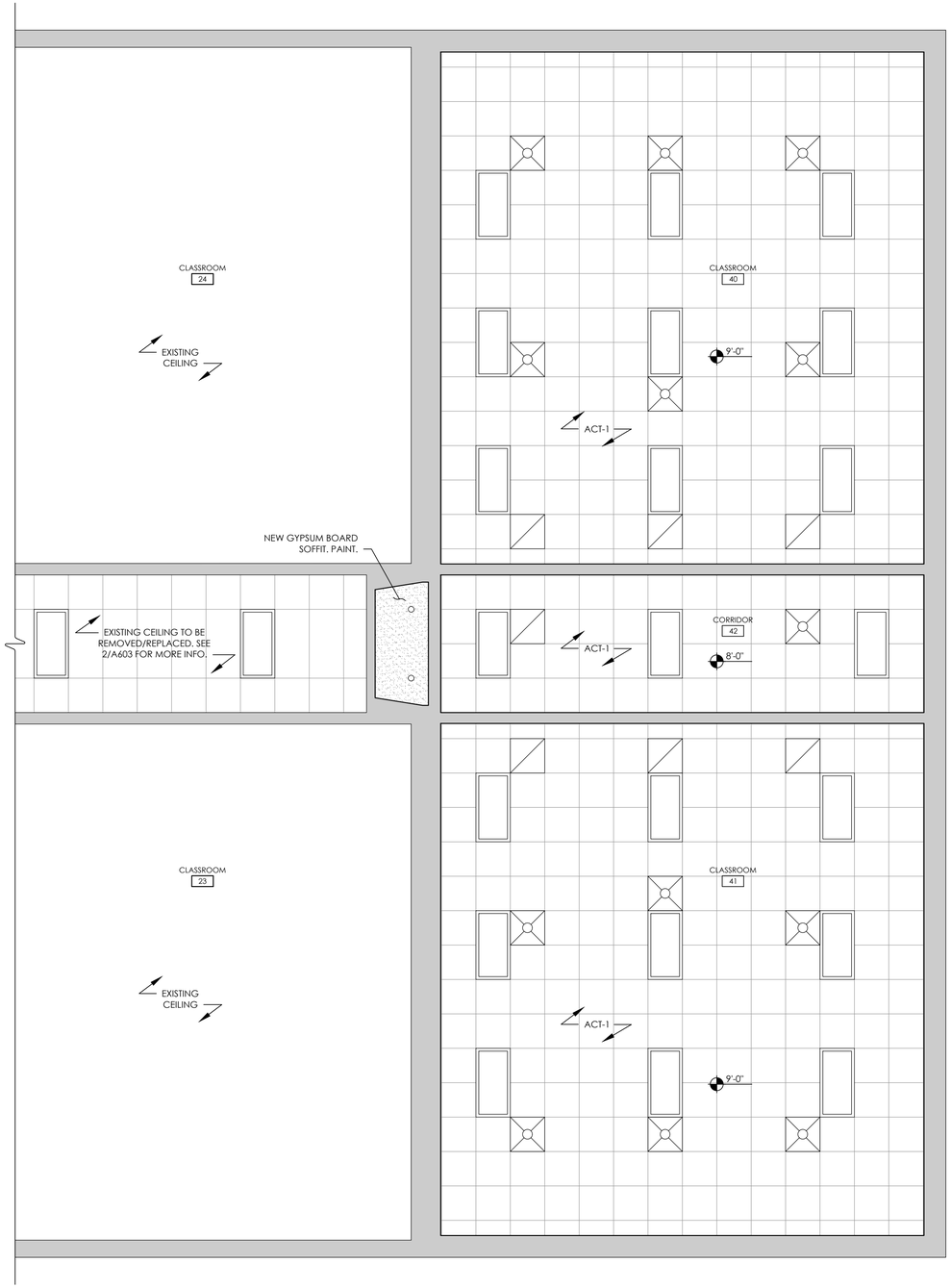
Date last plotted: 1/18/2021 1:46 PM
Plotted By: Ryan Goshea
Date last acRPCsed: 1/14/2021 12:06 PM

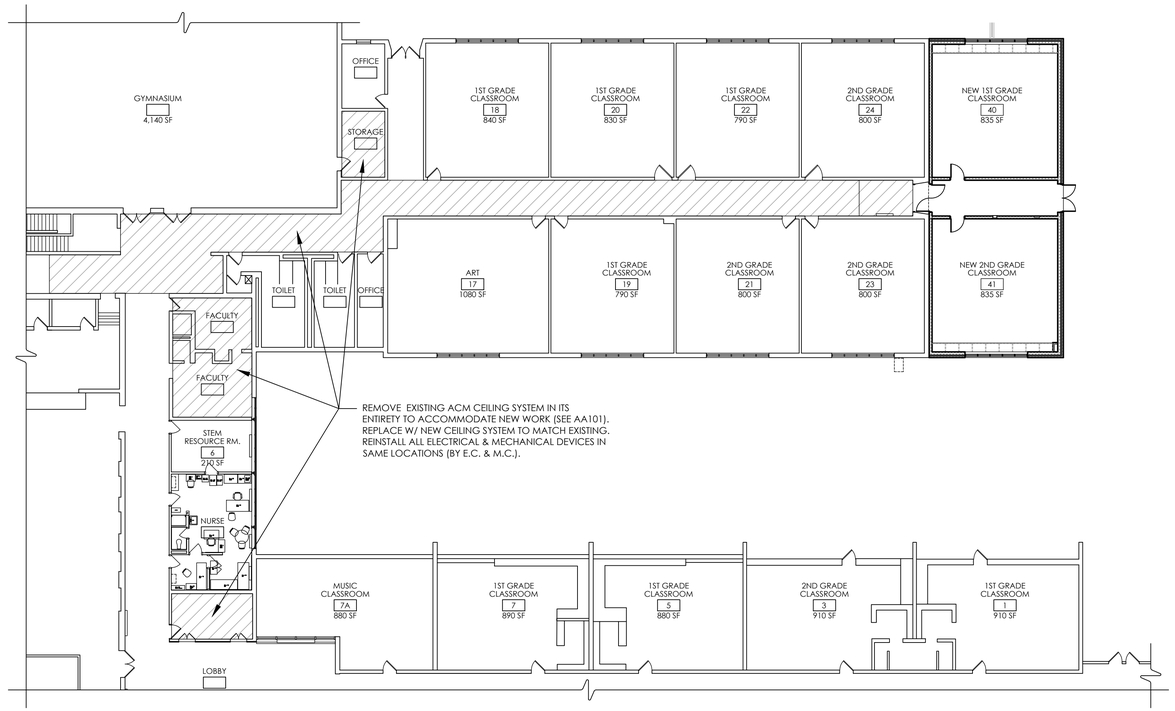
CEILING LEGEND

- WALL MOUNTED LIGHT FIXTURE
- X'-X" CEILING HEIGHT
- FAN COIL UNIT BY M.C.
- RETURN GRILLE BY M.C.
- LIGHT FIXTURE
- GYPSUM BOARD (GYP)
- ACOUSTIC CEILING TILE (ACT)

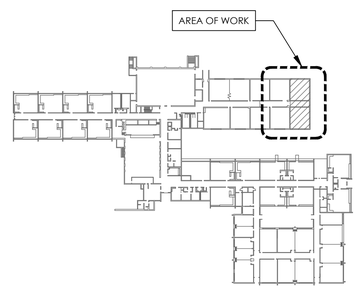
NOTE: REFER TO MECH & ELEC FOR COMPLETE SYMBOLS LIST



1 A603 FIRST FLOOR NEW WORK REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



2 A603 PARTIAL OVERALL FIRST FLOOR NEW WORK REFLECTED CEILING PLAN
SCALE: 1/16" = 1'-0"



KEY PLAN
SCALE: N.T.S.

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OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT
SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	RG	MJ

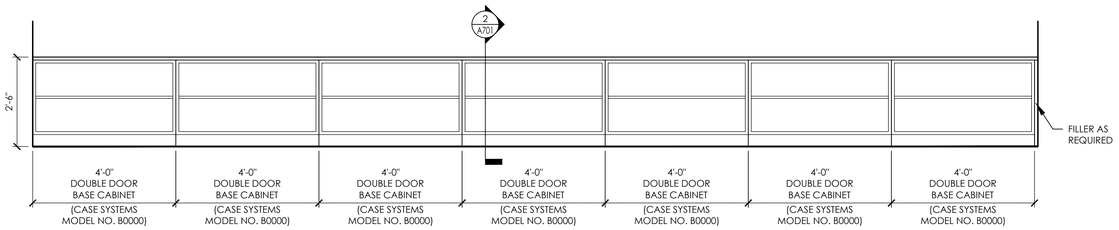
SCALE AS NOTED

SHEET TITLE
FIRST FLOOR NEW WORK REFLECTED CEILING PLAN

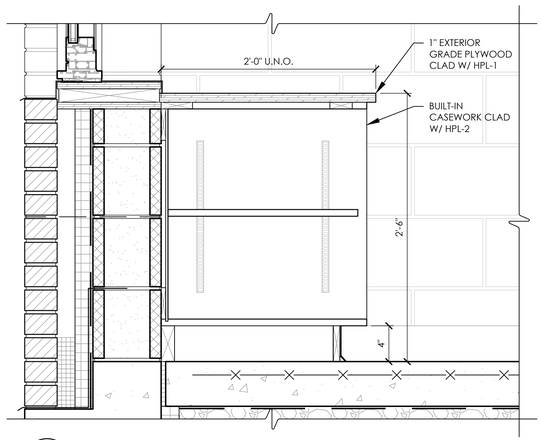
PROJECT NUMBER
14428.11

BES
A603
DRAWING NUMBER

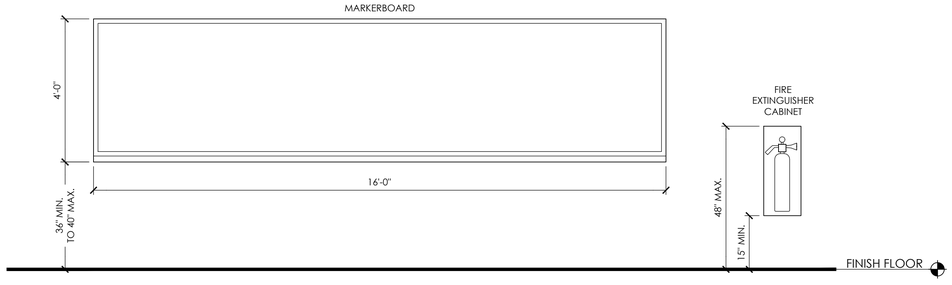
Plotted By: Mark Johnson
Date last plotted: 2/3/2021 3:10 PM
Date last acRPCsed: 2/3/2021 3:09 PM
Drawing Name: S:\Projects\Ossining UFSD\Brookside 2 CR Add\D Design\06 CAD\AutoCAD\ARCH\A6\BES A601.dwg



1 A701 CASEWORK ELEVATION
SCALE: 1/2" = 1'-0"



2 A701 CASEWORK SECTION
SCALE: 1 1/2" = 1'-0"



3 A701 TYPICAL ACCESSORY MOUNTING HEIGHTS
SCALE: 1/2" = 1'-0"

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SCALE AS NOTED

SHEET TITLE
CASEWORK ELEVATIONS
& DETAILS

PROJECT NUMBER
14428.11

BES
A701
DRAWING NUMBER

Plotted By: Ryan Gosnea
Date last plotted: 1/19/2021 11:14 AM
Date last acRPCsed: 1/19/2021 10:43 AM
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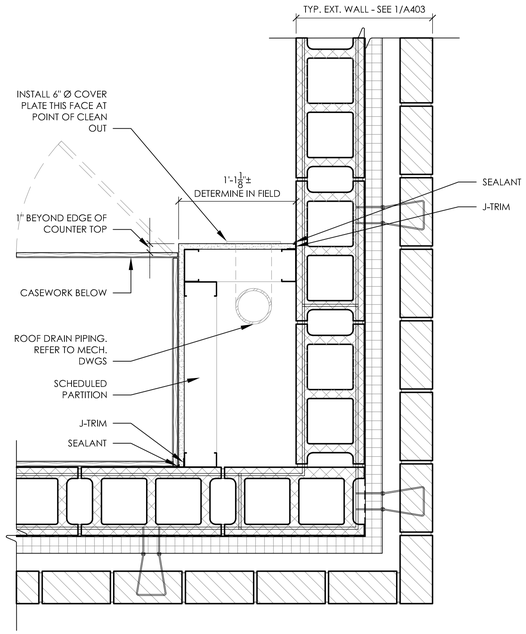
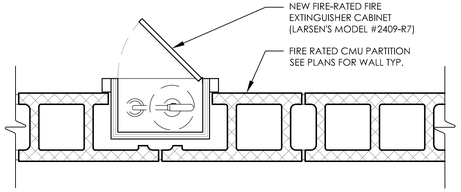
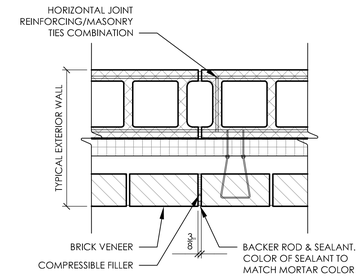


1 A801 PIPE CHASE DETAIL
SCALE: 1 1/2" = 1'-0"



2 A801 FIRE EXTINGUISHER CABINET DETAIL
SCALE: 1 1/2" = 1'-0"



3 A801 BRICK EXPANSION JOINT (BEJ) DETAIL
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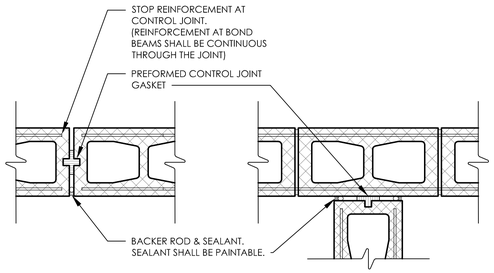
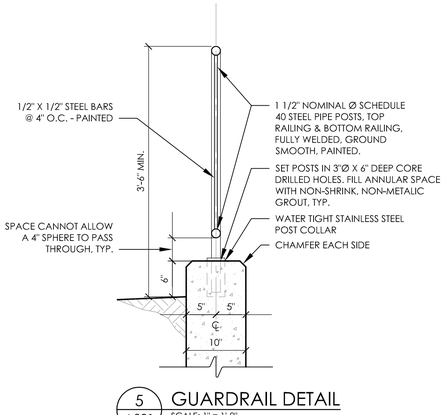
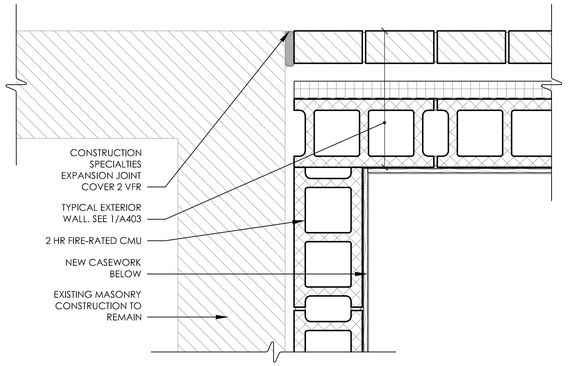


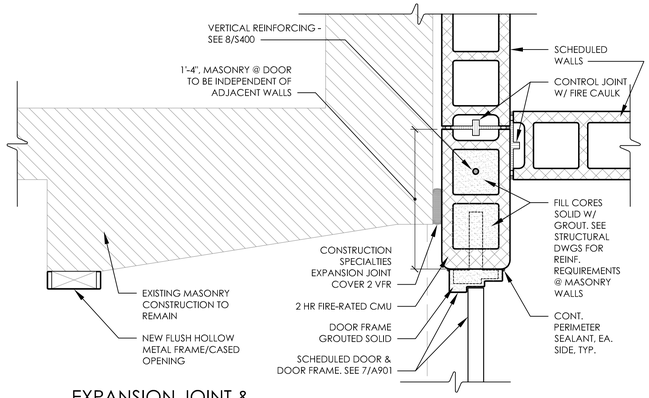
4 A801 CMU CONTROL JOINT (CJ) DETAIL
SCALE: 1 1/2" = 1'-0"



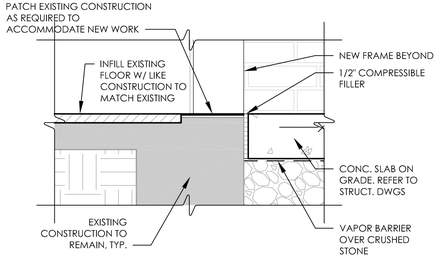
5 A801 GUARDRAIL DETAIL
SCALE: 1" = 1'-0"



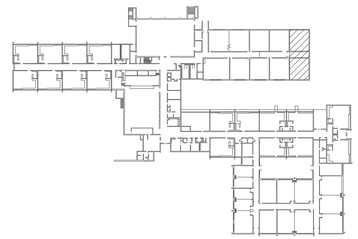
6 A801 TYPICAL EXPANSION JOINT DETAIL
SCALE: 1 1/2" = 1'-0"



7 A801 EXPANSION JOINT & CORIDOR DOOR DETAIL
SCALE: 1 1/2" = 1'-0"



8 A801 EXISTING TO NEW FLOOR SLAB DETAIL
SCALE: 1 1/2" = 1'-0"



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REVISIONS		
NO.	DATE	DESCRIPTION
1	4/23/2021	SED COMMENTS

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT
SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	RG	MJ

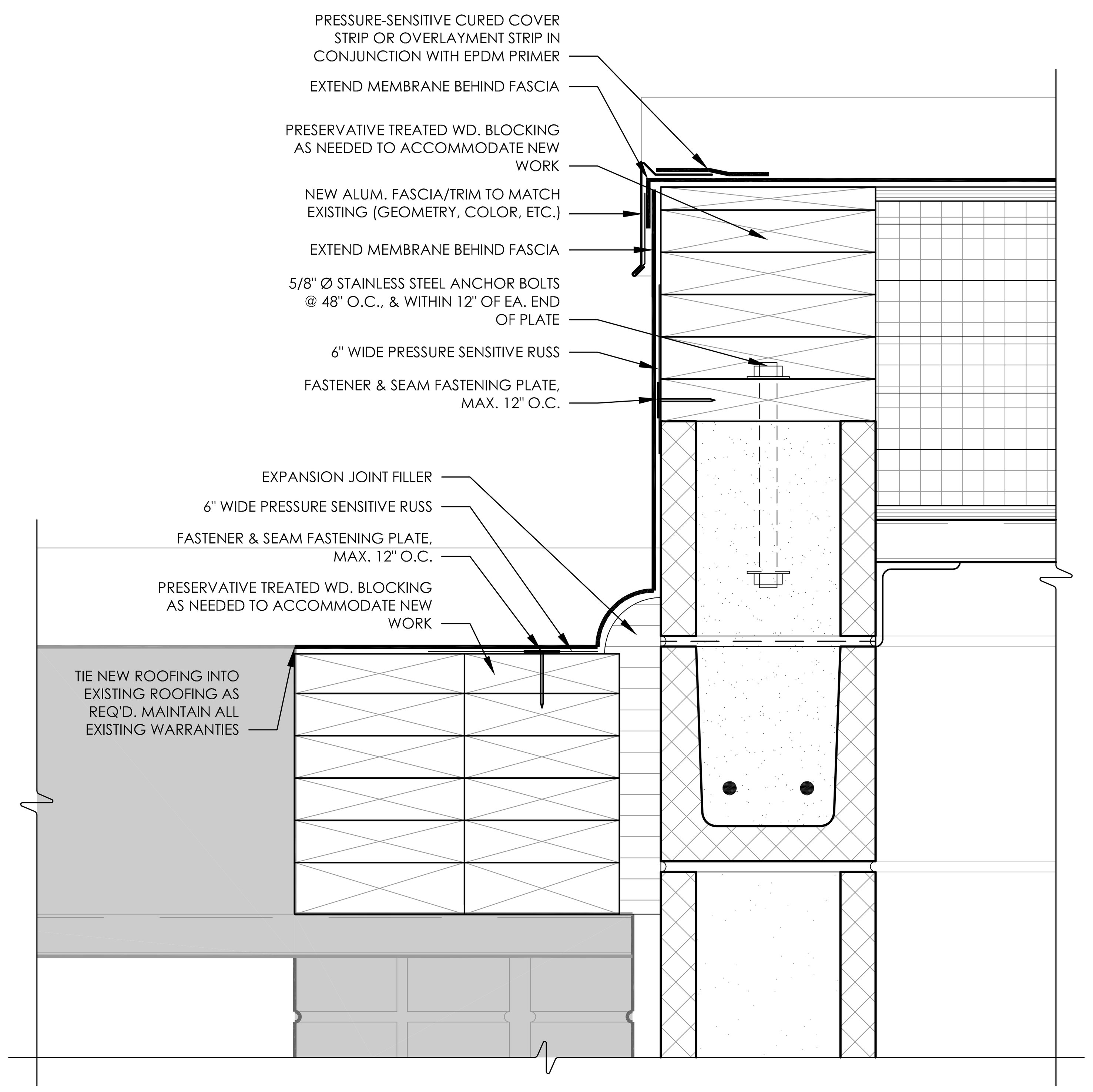
SCALE: AS NOTED

SHEET TITLE: NEW WORK DETAILS

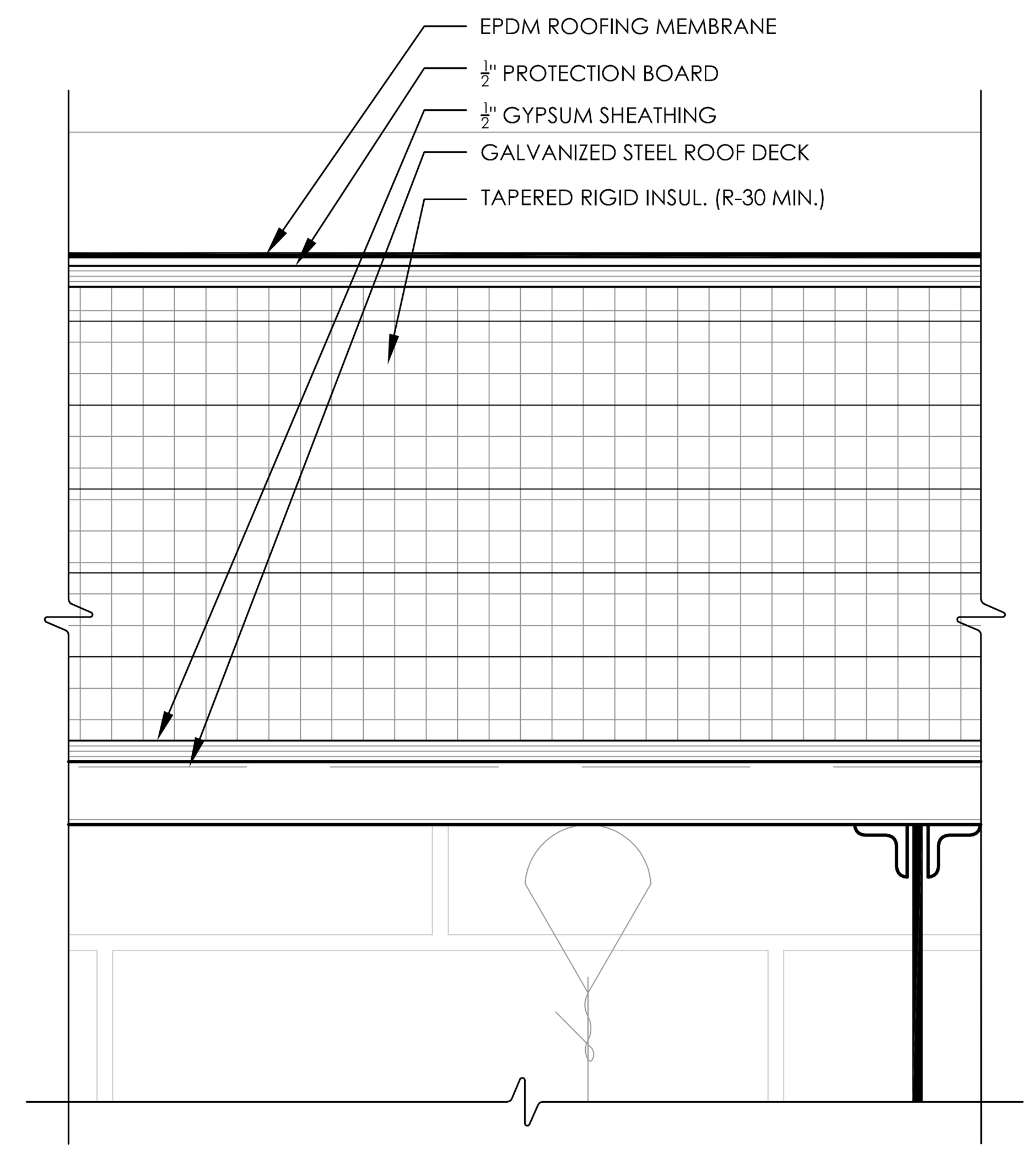
PROJECT NUMBER: 14428.11

BES
A801
DRAWING NUMBER

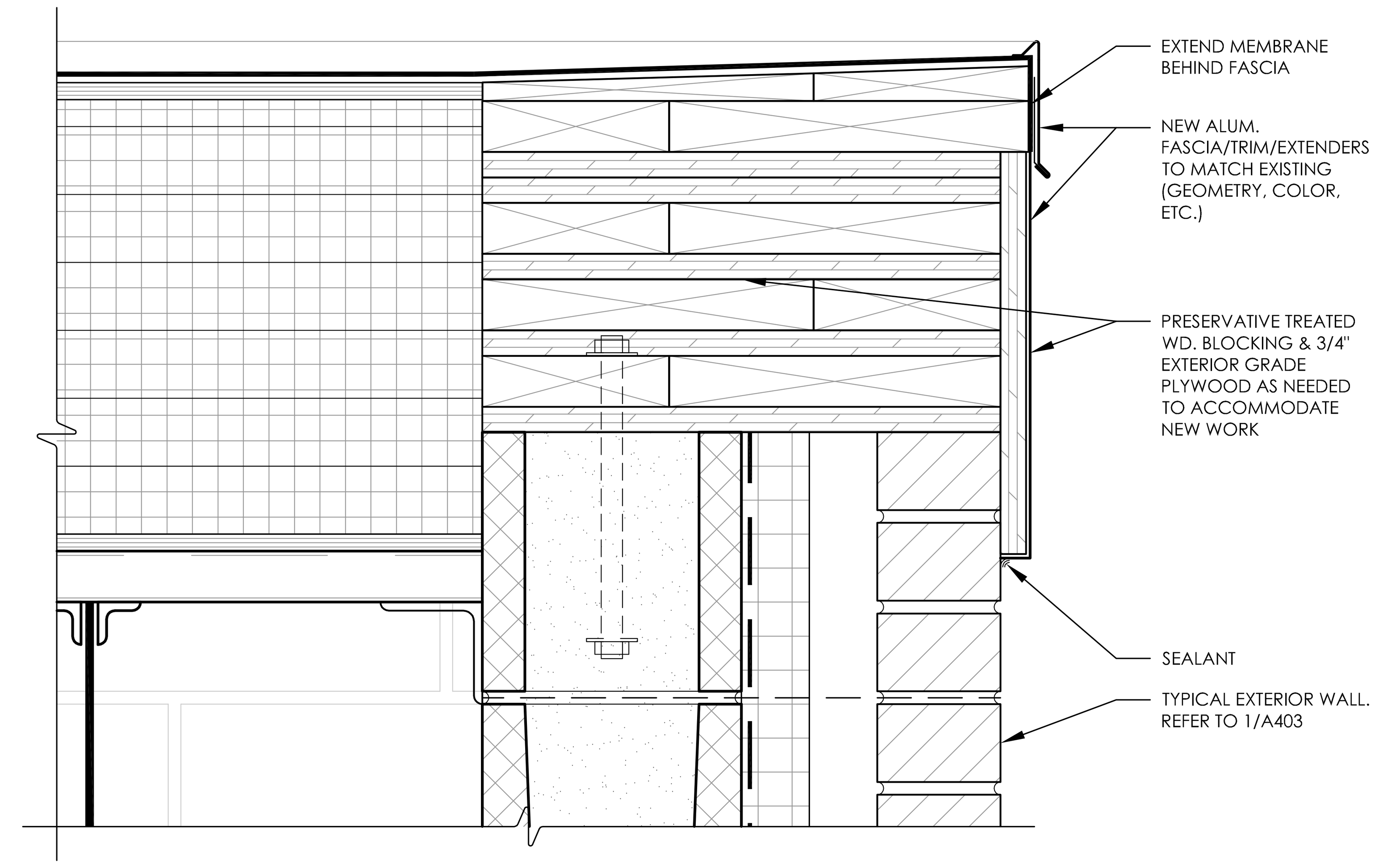
Plotted By: Mark Johnson
Date last plotted: 5/14/2021 9:14 AM
Date last acRPCsed: 4/21/2021 5:43 PM
Drawing Name: S:\Projects\Ossining UFSD\Brookside 2 CR Add\D Design\06 CAD\AutoCAD\ARCH\AB\BES A801.dwg



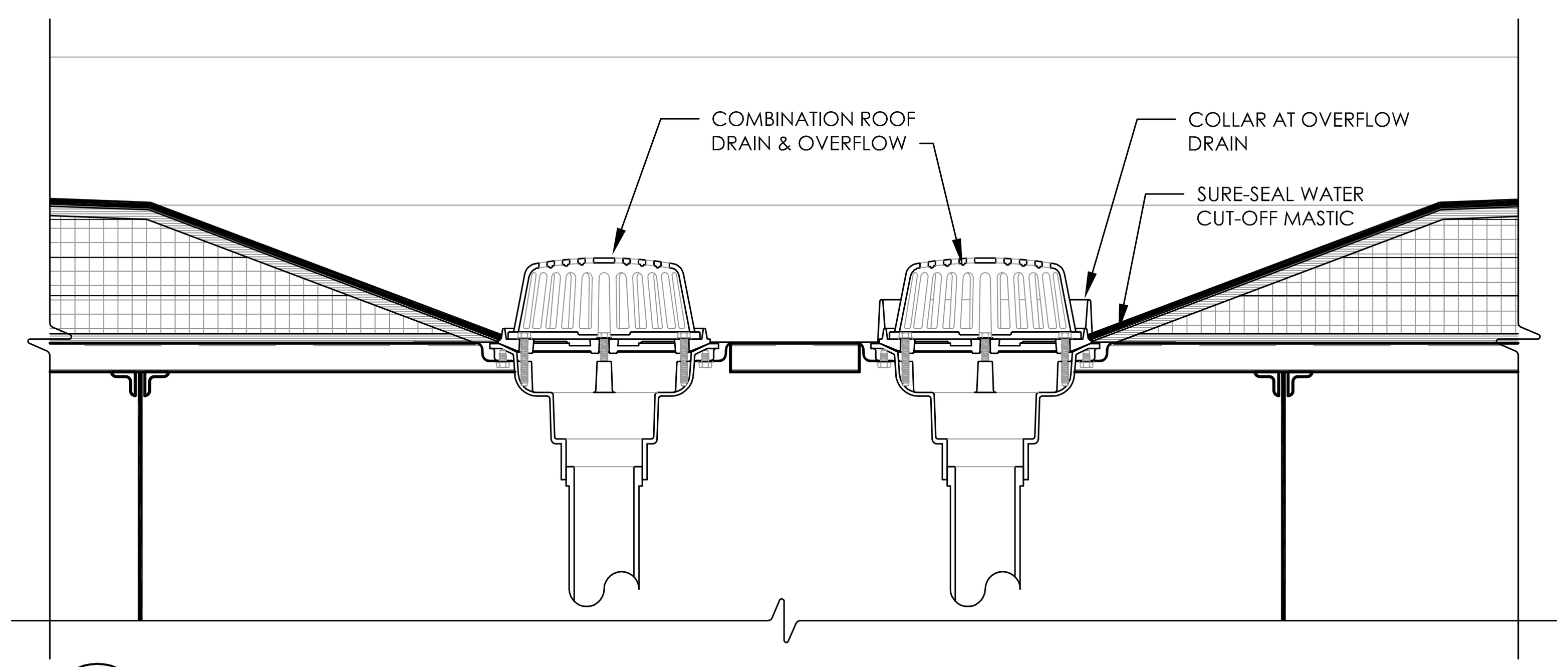
1 A802 EXPANSION JOINT ROOF DETAIL
SCALE: 3" = 1'-0"



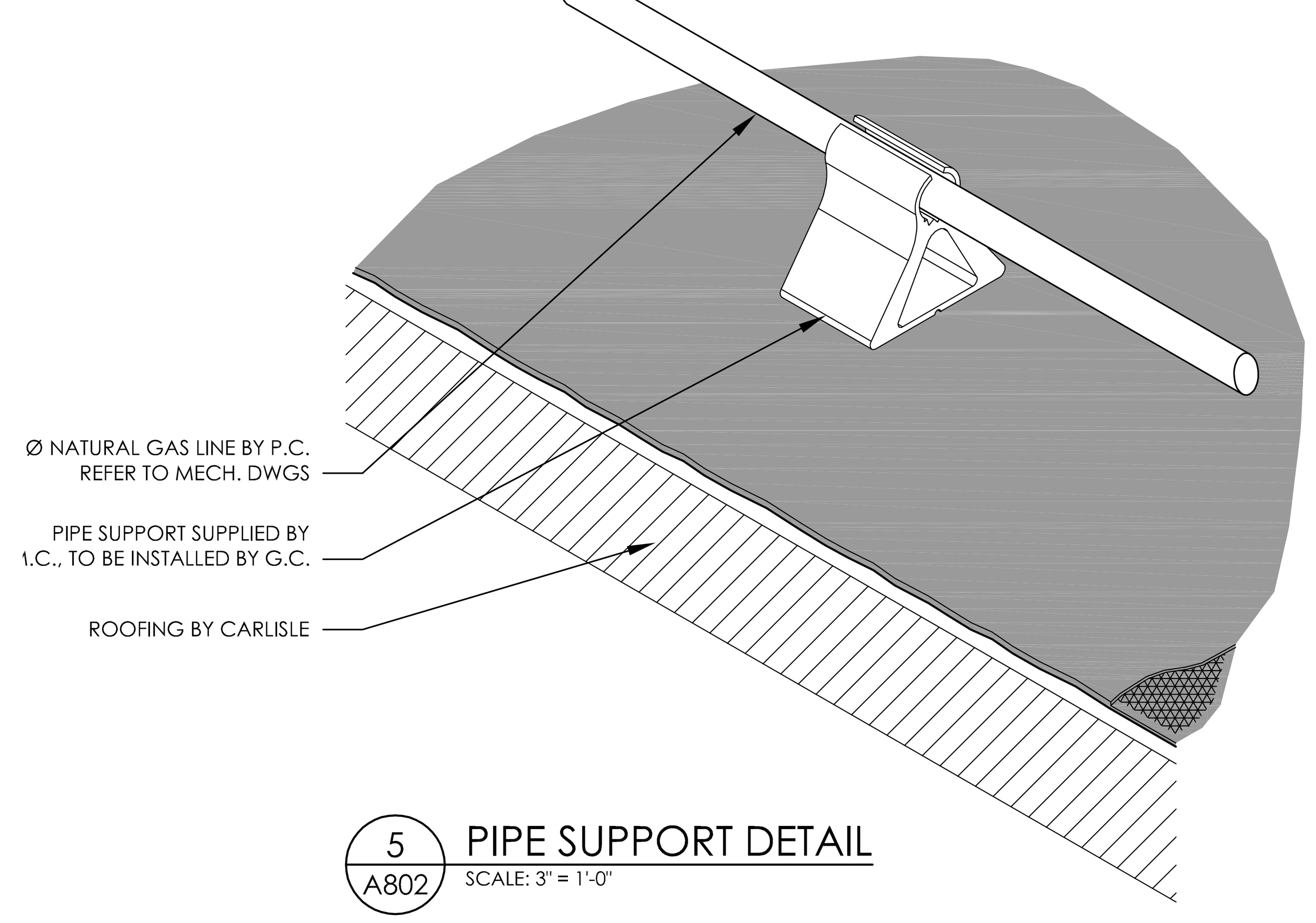
2 A802 TYPICAL NEW ROOFING DETAIL
SCALE: 3" = 1'-0"



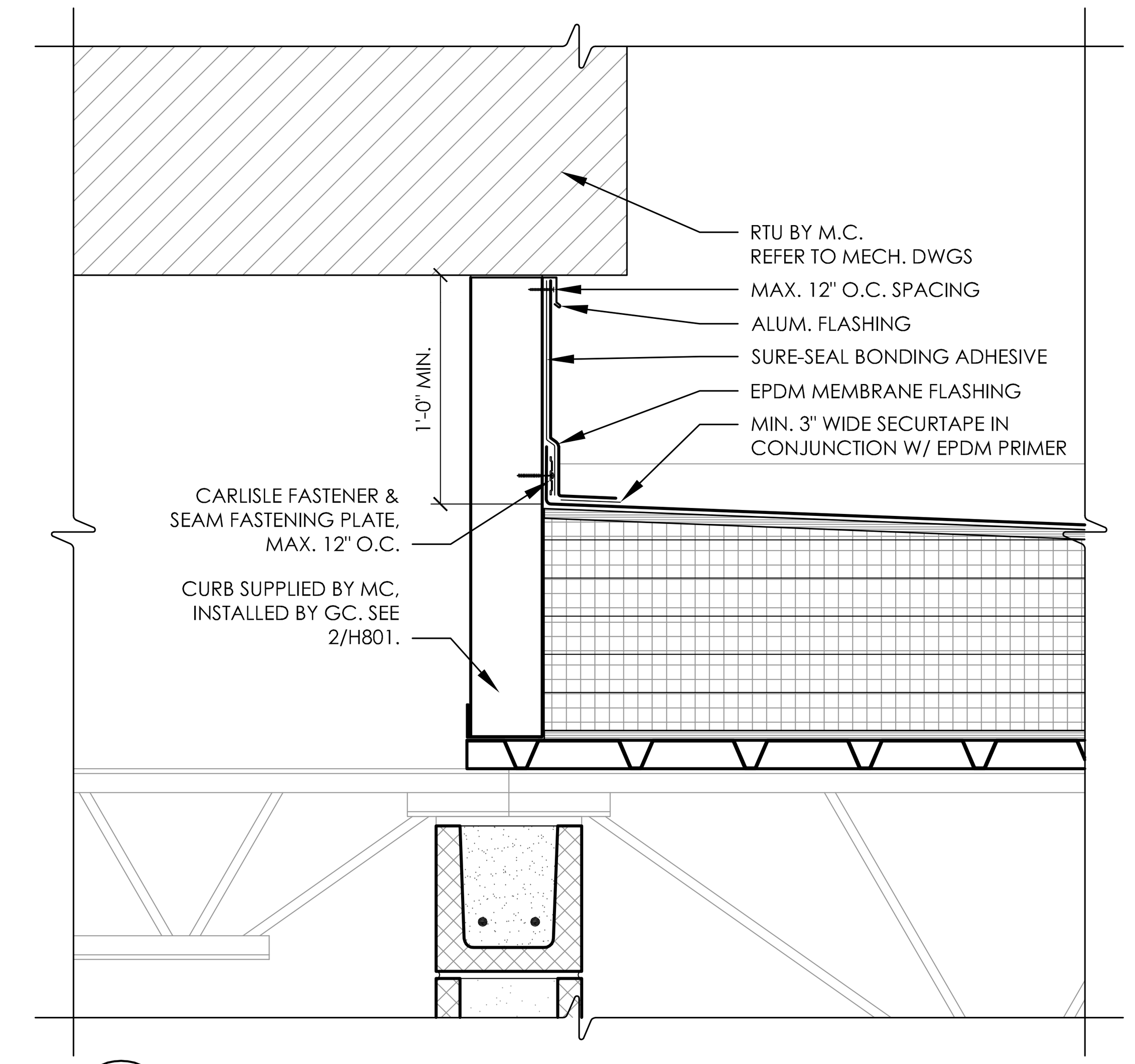
3 A802 ROOF EDGE DETAIL AT NEW EXT. WALL
SCALE: 3" = 1'-0"



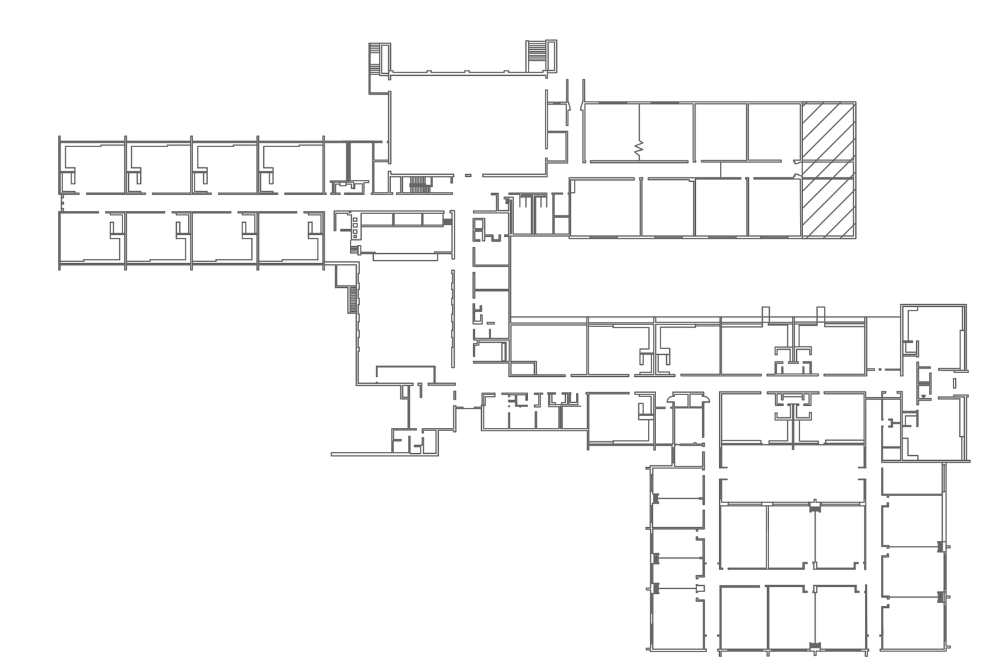
4 A802 ROOF DRAIN DETAIL
SCALE: 1 1/2" = 1'-0"



5 A802 PIPE SUPPORT DETAIL
SCALE: 3" = 1'-0"



6 A802 CURB DETAIL
SCALE: 1 1/2" = 1'-0"



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12/18/20	RG	MJ

SCALE: AS NOTED

SHEET TITLE: NEW WORK DETAILS

PROJECT NUMBER: 14428.11

BES A802
DRAWING NUMBER

WINDOW SCHEDULE

TYPE	UNIT SIZE		MATERIAL	ROUGH OPENING		GLAZING		REMARKS
	WIDTH	HEIGHT		WIDTH	HEIGHT	TYPE	THICKNESS	
W1	14'-0" ±	4'-6 3/4" ±	ALUM	14'-0" ±	4'-6 3/4" ±	IG-1	1"	-
W2	14'-0" ±	4'-6 3/4" ±	ALUM	14'-0" ±	4'-6 3/4" ±	IG-1	1"	-

GLASS TYPES

IG-1	1" INSULATING SAFETY GLASS

DOOR SCHEDULE

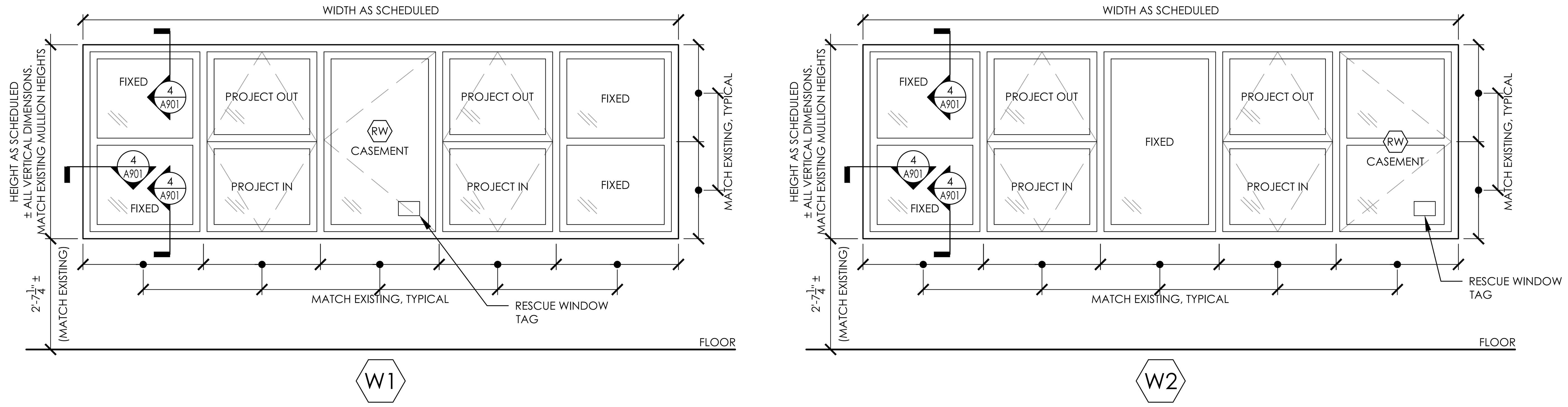
DOORS								FRAMES									
DOOR NO.	SIZE			TYPE	MATERIAL / FINISH	UNDERCUT	FIRE RATING	OVERALL SIZE			TYPE	MATERIAL / FINISH	JAMB DETAIL	HEAD DETAIL	SILL DETAIL	HARDWARE SET NO.	REMARKS (SEE NOTES BELOW ALSO) AT RATED OPENINGS WITH GLAZING, PROVIDE FIRE-RATED GLAZING AS SPECIFIED.
	WIDTH	HEIGHT	TH.					WIDTH	HEIGHT	DEPTH							
1-S-1	(2) 3'-0"	7'-0"	1 3/4"	A	HM/PT	-	-	6'-4"	7'-2"	5 7/8"	1	HM/PT	5/A901	5/A901	5/A901	SEE SPEC.	-
1-40	3'-0"	7'-2"	1 3/4"	C	WD/ST	-	45 MIN.	3'-4"	7'-4"	5 7/8"	1	HM/PT	6/A901	6/A901	6/A901	SEE SPEC.	-
1-41	3'-0"	7'-2"	1 3/4"	C	WD/ST	-	45 MIN.	3'-4"	7'-4"	5 7/8"	1	HM/PT	6/A901	6/A901	6/A901	SEE SPEC.	-
1-42	(2) 3'-0"	7'-0"	1 3/4"	D	WD/ST	-	90 MIN.	6'-4"	7'-4"	5 7/8"	2	HM/PT	7/A901	7/A901	7/A901	SEE SPEC.	-
2-42	(2) 3'-0"	7'-2"	2 1/4"	B	ALUM/MFR	-	-	6'-4"	7'-4"	4 1/2"	1	ALUM/MFR	8/A901	8/A901	8/A901	SEE SPEC.	-

NOTES

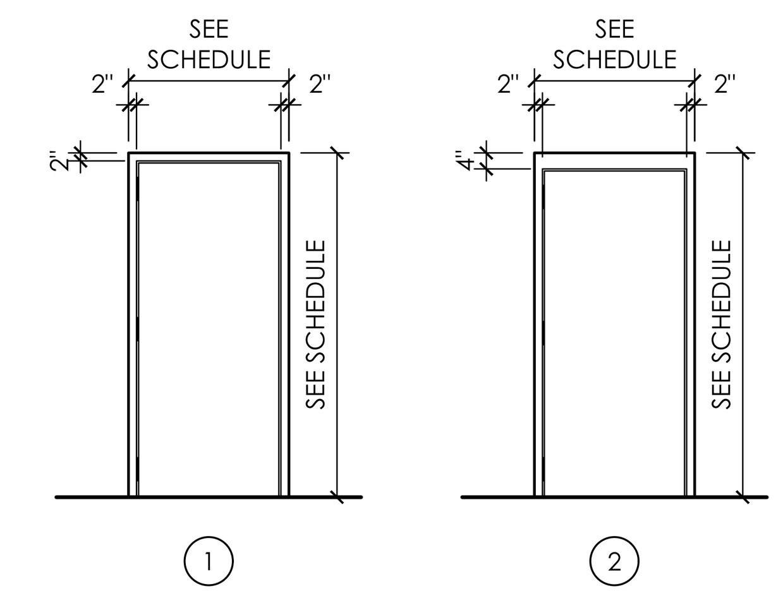
1. VERIFY ALL OPENINGS IN FIELD BEFORE FABRICATION.
2. PROVIDE FULL PERIMETER SEALANT AROUND ALL DOOR OPENINGS, BOTH SIDES OF FRAME. SEALANT COLOR TO MATCH DOOR FRAME COLOR.

LEGEND

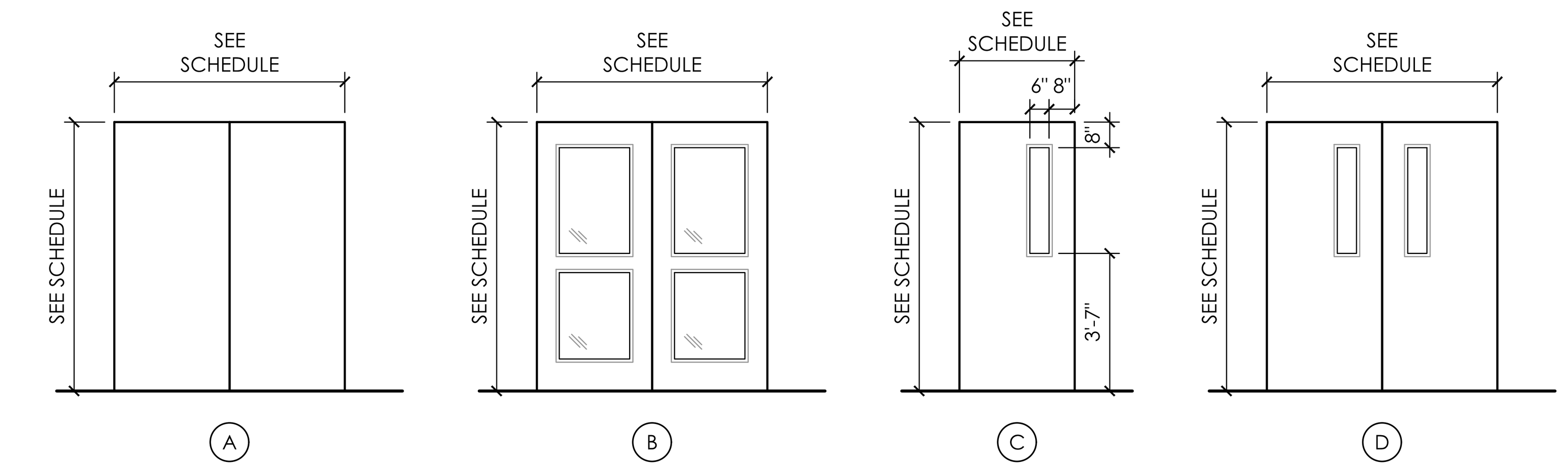
WD	WOOD
HM	HOLLOW METAL
EX	EXISTING
PT	PAINTED
MFR	MANUFACTURER
ALUM	ALUMINUM
SIM	SIMILAR
ST	STAINED & POLYURETHANED



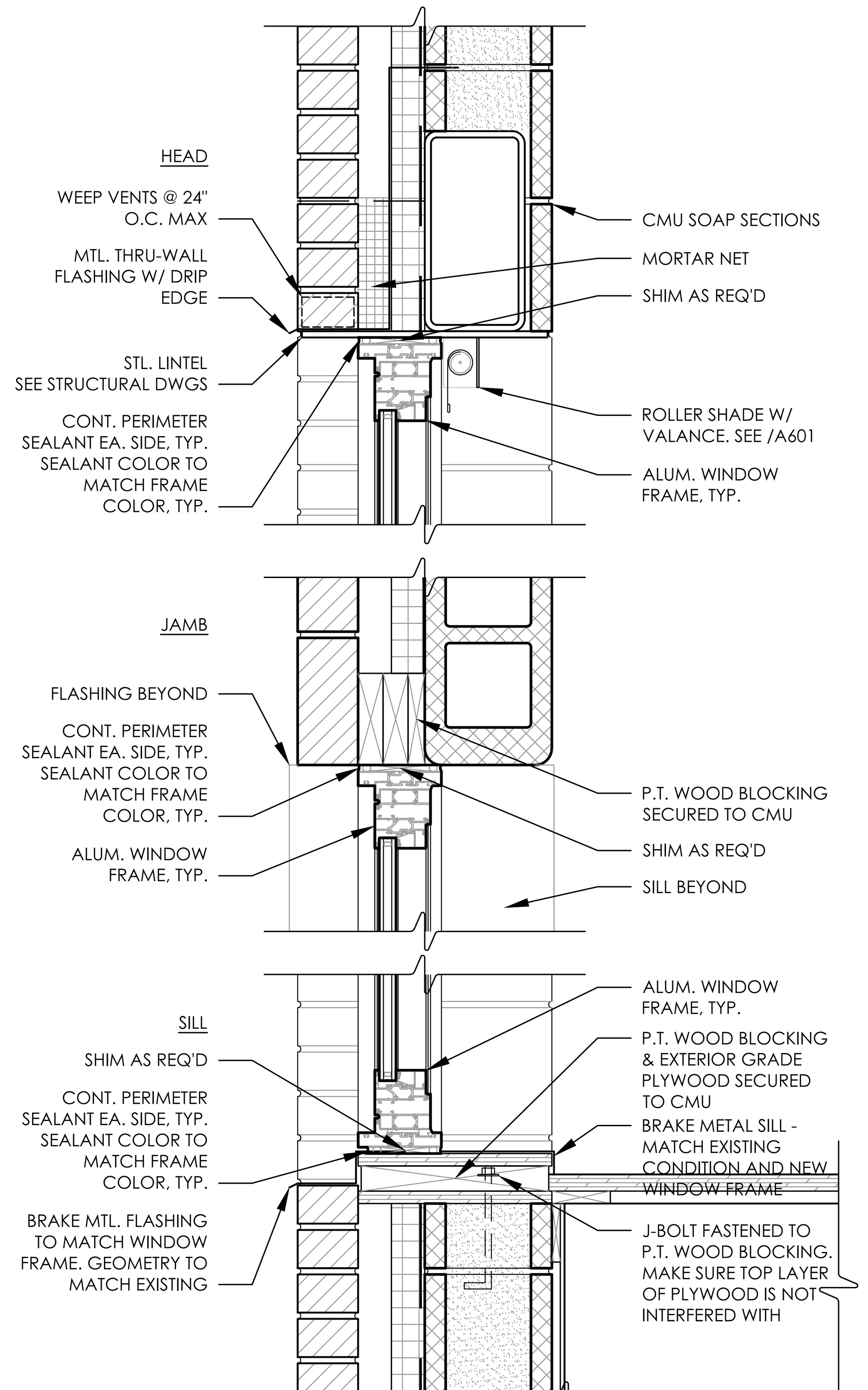
1 A901 WINDOW TYPES
SCALE: 1/2" = 1'-0"



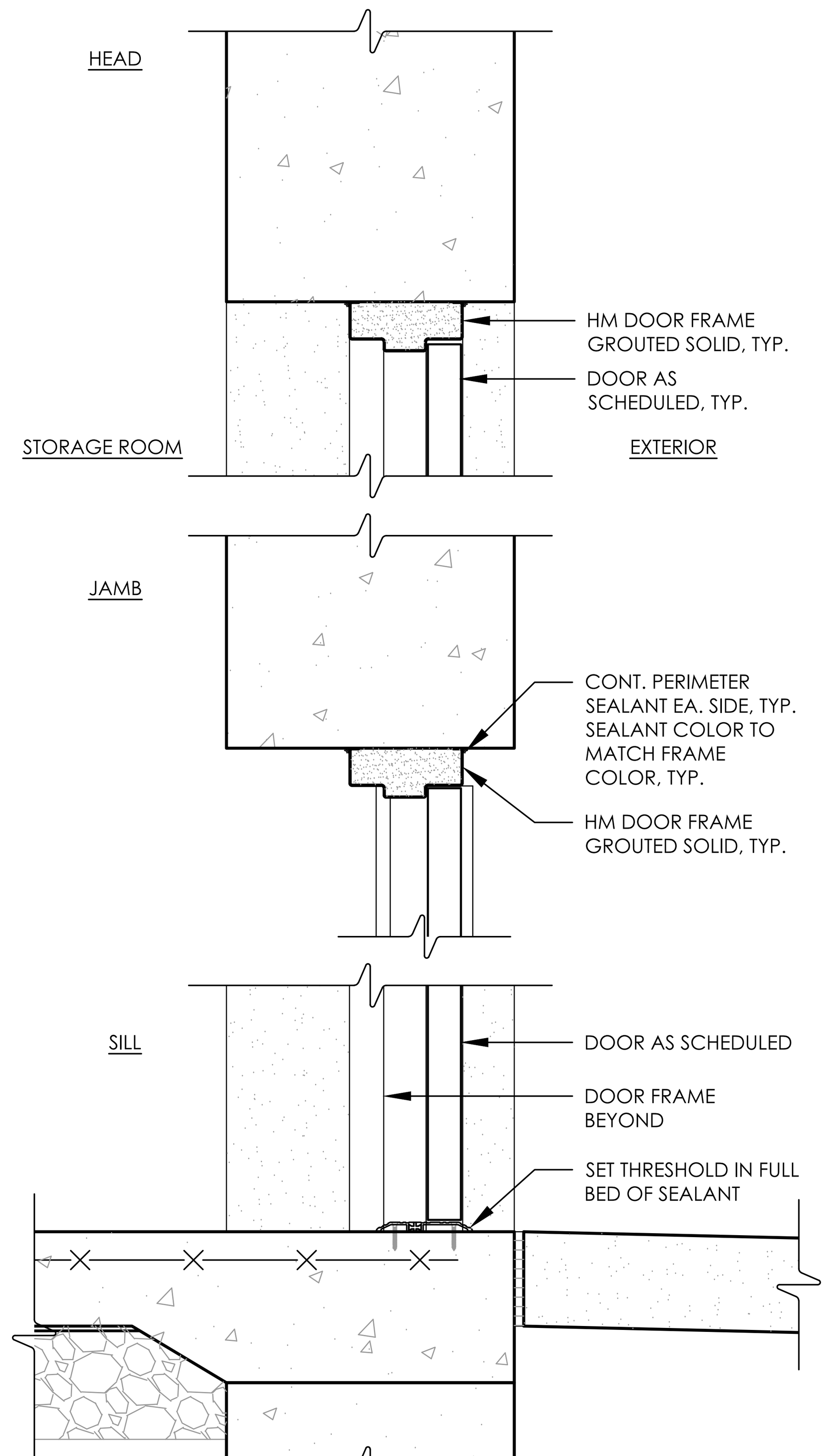
2 A901 DOOR FRAME TYPES
SCALE: 1/4" = 1'-0"



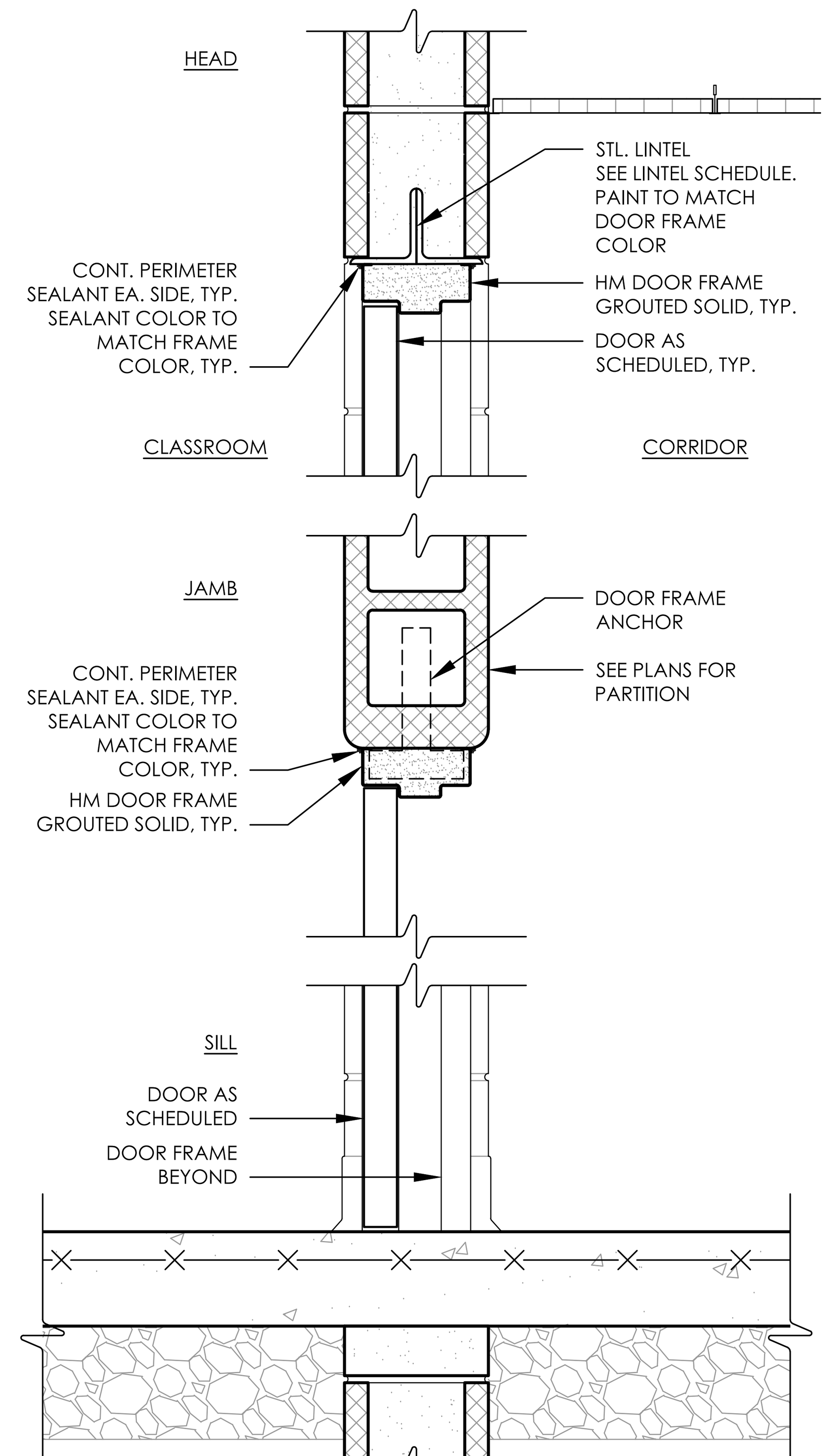
3 A901 DOOR TYPES
SCALE: 1/4" = 1'-0"



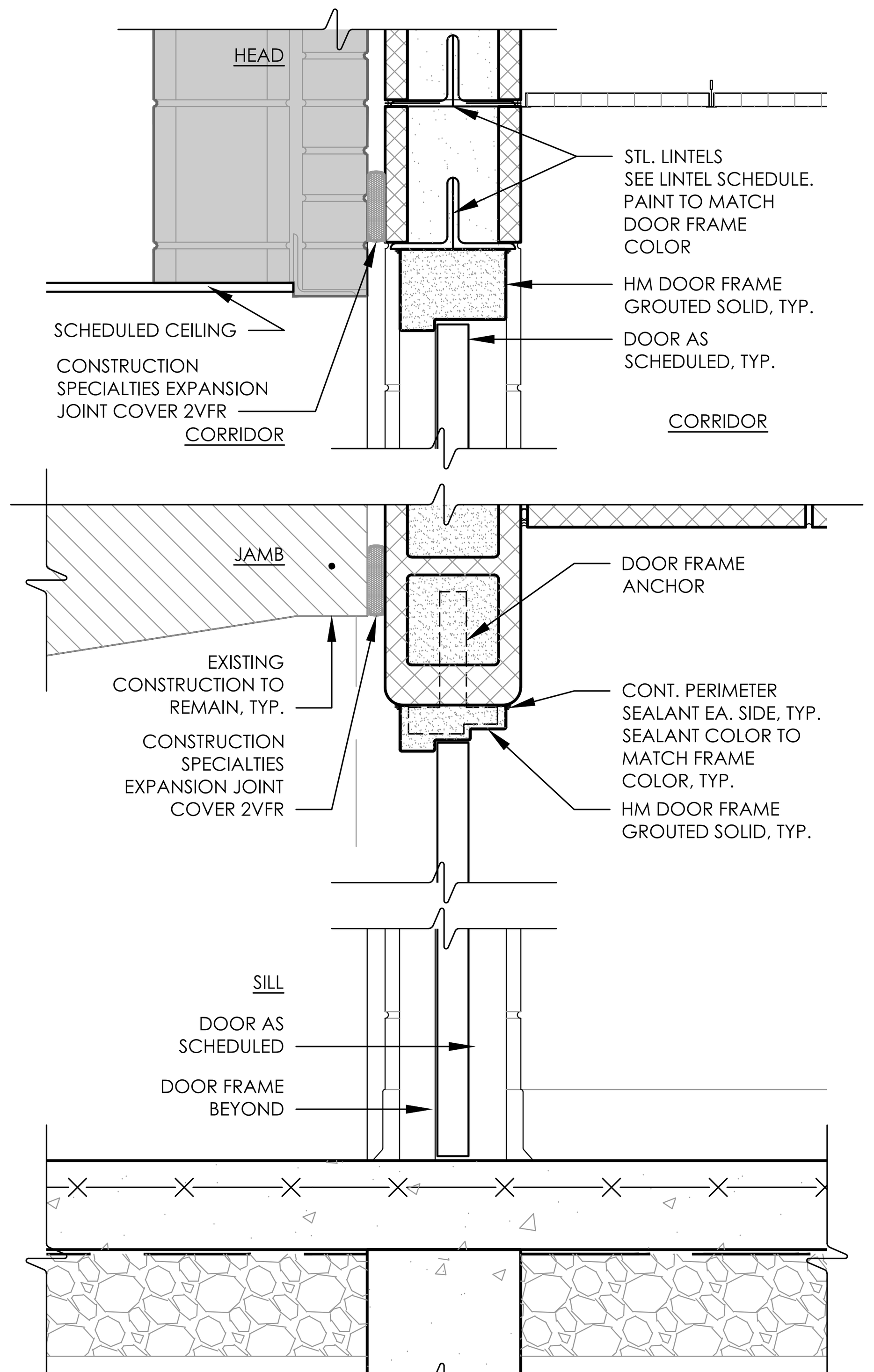
4 A901 W1 & W2 WINDOW DETAILS
SCALE: 1 1/2" = 1'-0"



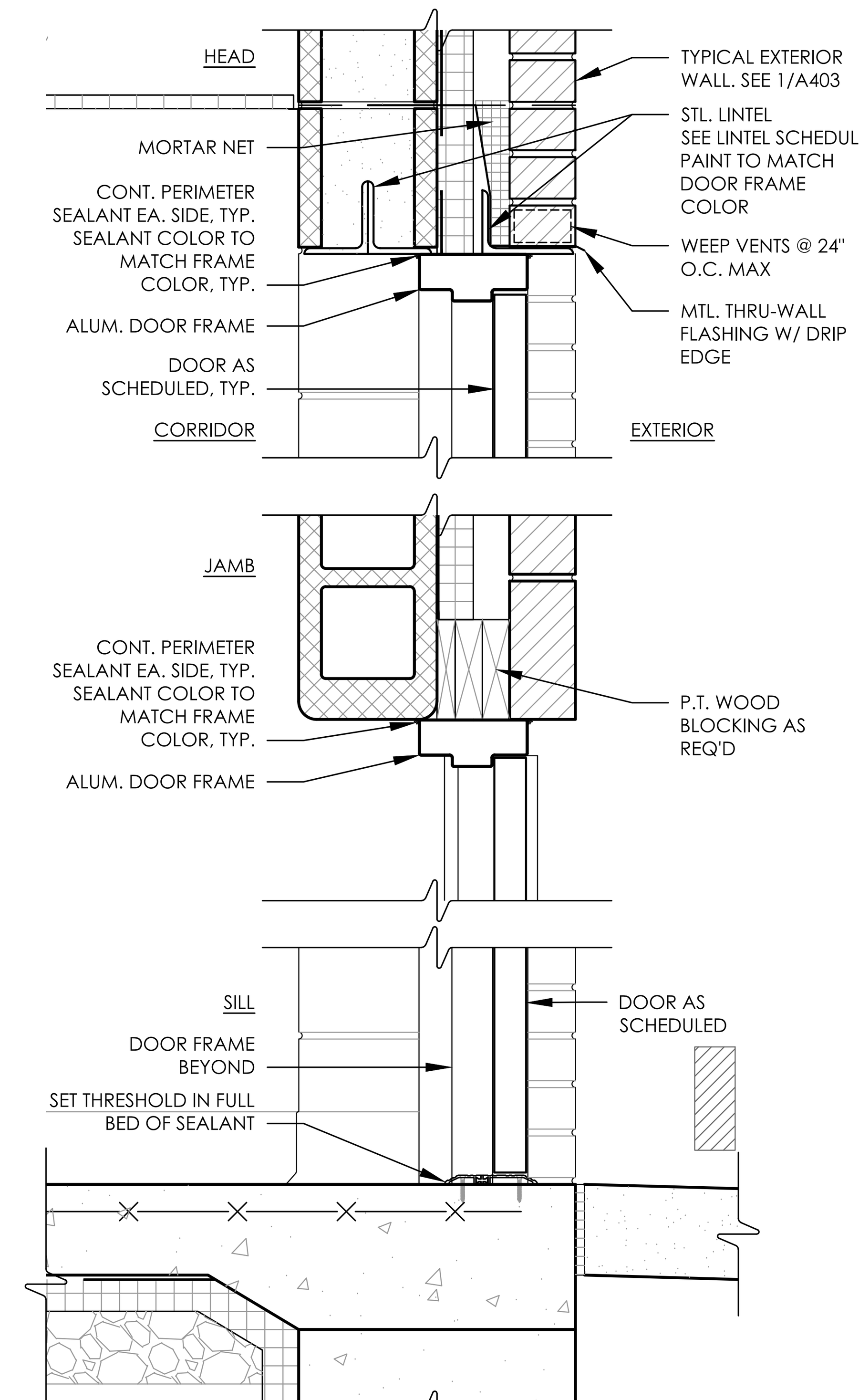
5 A901 DOOR DETAIL AT FOUNDATION WALL
SCALE: 1 1/2" = 1'-0"



6 A901 TYP. DOOR DETAIL AT CMU PARTITION
SCALE: 1 1/2" = 1'-0"



7 A901 DOOR DETAIL AT EXPANSION JOINT
SCALE: 1 1/2" = 1'-0"



8 A901 DOOR DETAIL AT NEW EXIT
SCALE: 1 1/2" = 1'-0"

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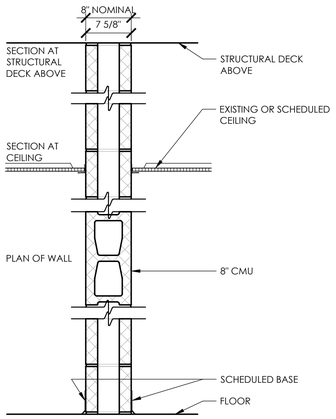
SCALE AS NOTED

SHEET TITLE
WINDOW & DOOR SCHEDULES, TYPES & DETAILS

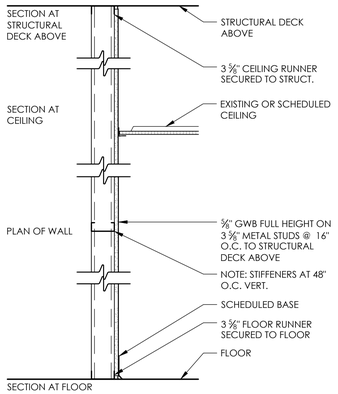
PROJECT NUMBER
14428.11

BES
A901
DRAWING NUMBER

Plotted By: Mark Johnson
Date last plotted: 2/3/2021 3:57 PM
Date last acRPCsed: 2/3/2021 3:55 PM
Drawing Name: S:\Projects\Ossining UFSD\Brookside 2 CR Add\D Design\06 CAD\AutoCAD\ARCH\A9\BES A901.dwg



TYPE	FIRE TEST LAB & DESIGN	FIRE RATING	STC
M8	NA	NA	55
M8r	UL - U905	1 HR	55
M8d	UL - U905	2 HR	55



TYPE	FIRE TEST LAB & DESIGN	FIRE RATING	STC
F3	NA	NR	NA

1 / A902 WALL TYPES
SCALE: 1" = 1'-0"

PARTITION TYPE LEGEND:

MATERIAL DESIGNATION

- C — CONSTRUCTION BARRIER 3" STEEL STUDS x 20 GA.
- F — FURRED ASSEMBLY
- M — CONCRETE MASONRY UNIT (CMU)
- S — STEEL STUDS x 20 GA.
- X — SHAFT WALL ASSEMBLY, STEEL STUD

SIZE SUFFIX:

1 - 1 5/8" STUD OR 7/8" FURRING
2 - 2½" STUD OR 2" Z FURRING
3 - 3 5/8" STUD OR 3" Z FURRING
4 - 4" CONCRETE MASONRY UNIT (CMU) OR 4" STUD
6 - 6" CONCRETE MASONRY UNIT (CMU) OR 6" STUD
8 - 8" CONCRETE MASONRY UNIT (CMU) OR 8" STUD
9 - (2) 3 5/8" CHASE WALL
10 - 10" CONCRETE MASONRY UNIT (CMU)
12 - 12" CONCRETE MASONRY UNIT (CMU)

RATING SUFFIX:

r - (1) HOUR RATED (CMU) OR (1) HOUR RATED PARTITION, SINGLE LAYER OF 5/8" TYPE "X" GWB EACH SIDE OF PARTITION, FULL HEIGHT.

d - (2) HOUR RATED (CMU) OR (2) HOUR RATED PARTITION-DOUBLE LAYER OF 5/8" TYPE "X" GWB EACH SIDE OF PARTITION, FULL HEIGHT.

ACCESSORIES SUFFIX:

a - 5/8" GWB ADHERED TO SUBSTRATE (EXISTING OR NEW)

c - GWB TO 6" ABOVE CEILING ON ONE SIDE OF PARTITION AND FULL HEIGHT OPPOSITE SIDE.

e - LAYER OF GWB MOVED TO OPPOSITE SIDE OF ASSEMBLY

f - FURRING - GWB ONE SIDE ONLY.

i - SOUND ATTENUATING BATT INSULATION.

l - LEADED GWB

p - ON TAG SIDE OF PARTITION, USE 1 LAYER OF 5/8" GWB FULL HEIGHT PLUS AN ADDITIONAL OUTER LAYER OF 5/8" GWB TO 4" ABOVE FINISHED CEILING SYSTEM (STAGGER SEAMS). OPPOSITE SIDE OF PARTITION TO BE 1 LAYER OF 5/8" GWB FULL HEIGHT UNLESS "d" RATING SUFFIX IS ALSO INDICATED.

s - SOUND SEAL

t - CERAMIC WALL TILE (CWT) OR CEMENTITIOUS BACKER BOARD AND TILE AT STUD PARTITION

v - PLASTER VENEER.

w - CONTINUE EXISTING WALL TO UNDERSIDE OF STRUCTURAL DECK ABOVE.

z - FURRING CHANNEL WITH 1 LAYER GWB TO 6" ABOVE CEILING, INSTALLED ON TAG SIDE OF PARTITION (REFER TO WALL TYPE DETAIL FOR CHANNEL SIZE).

GENERAL NOTES:

1. FULL HEIGHT PARTITIONS SHALL EXTEND TO THE BOTTOM OF CONCRETE, METAL, OR OTHER STRUCTURAL DECK ABOVE.
2. FLUTES IN METAL DECK ABOVE RATED PARTITIONS SHALL BE FILLED WITH FIRE SAFING INSULATION. FIRE STOP ENTIRE PERIMETER OF RATED PARTITIONS, INCLUDING EXTERIOR WALLS, WITH A UL LISTED JOINT SYSTEM FIRESTOP ASSEMBLY.
3. PROVIDE DEFLECTION TRACKS AT METAL STUD PARTITIONS THAT TERMINATE AT THE UNDERSIDE OF STRUCTURAL DECK ABOVE.
4. ALL PENETRATIONS IN FIRE RATED PARTITIONS SHALL BE FIRE STOPPED AND SEALED.
5. PROVIDE ABUSE RESISTANT 5/8" TYPE 'X' GYPSUM WALL BOARD AT ALL FIRE RATED PARTITIONS.
6. PROVIDE 5/8" MOISTURE RESISTANT GYPSUM WALL BOARD AT TOILET ROOM, LAVATORY, CUSTODIAL CLOSET OR OTHER WET LOCATIONS.
7. PARTITION TYPES WITH ONE SIDE OF DOUBLE DRYWALL SHALL BE PLACED SO THAT THE DOUBLE SIDE IS ON CORRIDOR AND/OR HIGH TRAFFIC SIDE OF THE WALL.
8. REFER TO THE STRUCTURAL SERIES DRAWINGS FOR MASONRY WALL REINFORCEMENT.
9. ALL PARTITIONS SHALL BE SEALED TO PREVENT THE PASSAGE OF SMOKE.
10. PROVIDE BULL-NOSED EDGES AT ALL EXPOSED MASONRY CORNERS.
11. PROVIDE DOUBLE STUDS AT PERIMETER OF ALL OPENINGS.
12. CONTRACTOR SHALL REFER TO CODE/LIFE SAFETY DRAWING FOR LOCATIONS OF RATED PARTITIONS.

CPLteam.com
ARCHITECTURE ▪ ENGINEERING ▪ PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT
SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	RG	MJ

SCALE: AS NOTED
SHEET TITLE: WALL TYPES

PROJECT NUMBER: 14428.11

BES
A902
DRAWING NUMBER

HVAC SYMBOLS LIST

SYMBOL	DESCRIPTION
AAD	AUTOMATIC AIR DAMPER
ACC	AIR-COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BBD	BOILER BLOW DOWN
BD	BACKDRAFT DAMPER
CA	COMPRESSED AIR
CD	COOLING COIL CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CW	DOMESTIC COLD WATER
D	DRAIN
(E)	EXISTING
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ERHC	ELECTRIC REHEAT COIL
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
F&T	FLOAT AND THERMOSTATIC TRAP
FCU	FAN-COIL UNIT
FPM	FEET PER MINUTE
FT	FIN-TUBE
GC	GENERAL CONTRACTOR
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
HC	HVAC CONTRACTOR
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HP	HEAT PUMP
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
LF	LINEAR FOOTAGE OF FIN-TUBE RADIATION
LPC	LOW PRESSURE CONDENSATE
LPG	LIQUEFIED PROPANE GAS
LPS	LOW PRESSURE STEAM
MBH	1,000 BTU/HR
MC	MECHANICAL CONTRACTOR
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MRD	MONOFLO FITTING DOWN – HHWR
MSD	MONOFLO FITTING DOWN – HHWS
MUW	MAKE-UP WATER
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PHWR	PRIMARY HEATING HOT WATER RETURN
PHWS	PRIMARY HEATING HOT WATER SUPPLY
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RHC	HOT WATER REHEAT COIL
RLL	REFRIGERANT LIQUID PIPE
RSL	REFRIGERANT SUCTION PIPE
RTU	ROOFTOP UNIT
RV	ROOF VENT
SA	SUPPLY AIR
SHWR	SECONDARY HEATING HOT WATER RETURN
SHWS	SECONDARY HEATING HOT WATER SUPPLY
SSI	SPLIT SYSTEM INDOOR SECTION (EVAPORATOR SECTION)
SSO	SPLIT SYSTEM OUTDOOR SECTION (CONDENSING UNIT)
TC	TEMPERATURE CONTROLS CONTRACTOR
UH	UNIT HEATER
UV	UNIT VENTILATOR
V	VENT
WAHP	WATER-TO-AIR HEAT PUMP
WWHP	WATER-TO-WATER HEAT PUMP

SYMBOL	DESCRIPTION
	CONNECTION - TOP
	CONNECTION - BOTTOM
	DIRECTION OF FLOW
	REDUCER
	CAP OR PLUG
	ELBOW DOWN
	ELBOW UP
	TEE OUTLET - UP
	TEE OUTLET - DOWN
	UNION
	GATE VALVE
	BALL VALVE
	BALANCING VALVE
	STRAINER
	STRAINER WITH BLOW-DOWN
	BUTTERFLY VALVE
	BUTTERFLY CONTROL VALVE, PNEUMATIC 2-WAY
	BUTTERFLY CONTROL VALVE, ELECTRIC ACTUATOR
	GLOBE VALVE
	CHECK VALVE
	TRIPLE DUTY VALVE
	GAS COCK, PLUG VALVE
	UNDERCUT DOOR 1"
	LOUVERED DOOR W/ SQ. FT. OF FREE AREA
	AIR VENT - MANUAL
	AIR VENT - AUTOMATIC
	FLANGE
	CONTROL/SOLENOID VALVE, ELECTRIC 2-WAY
	CONTROL VALVE, ELECTRIC 3-WAY
	CONTROL VALVE, PNEUMATIC 2-WAY
	CONTROL VALVE, PNEUMATIC 3-WAY
	RELIEF / SAFETY VALVE
	PRESSURE REDUCING VALVE
	VACUUM BREAKER
	FLEXIBLE PIPE CONNECTOR
	EXPANSION COMPENSATOR W/ GUIDES
	EXPANSION JOINT
	PIPE ANCHOR
	PIPE GUIDE
	THERMOSTATIC TRAP
	FLOAT & THERMOSTATIC TRAP
	BUCKET TRAP
	THERMODYNAMIC TRAP
	THERMOMETER
	WELL
	PRESSURE GAUGE
	STEAM PRESSURE GAUGE WITH 1/4" NEEDLE VALVE
	PRESSURE GAUGE WITH 1/4" NEEDLE VALVE
	PNEUMATIC (CONTROL) TUBING
	BUTTERFLY VALVE WITH PNEUMATIC AND MANUAL OPERATORS
XX	PIPING
XX	PIPING BELOW GRADE
	BASE MOUNTED PUMP
	IN-LINE PUMP
	AIR TERMINAL UNIT WITH REHEAT COIL AND SOUND ATTENUATOR
	AIR TERMINAL UNIT WITH SOUND ATTENUATOR
	AIR TERMINAL UNIT WITH REHEAT COIL
	AIR TERMINAL UNIT
W/W ENCL.	WALL TO WALL FIN TUBE ENCLOSURE

SYMBOL	DESCRIPTION
(DBL)	DOUBLE WALL LINED DUCT
20/10	DUCT SECTION - SUPPLY
20/10	DUCT SECTION - RETURN/EXHAUST
Ø	DUCT SECTION - ROUND DUCT IN INCHES
AXB FO	DUCT SECTION - FLAT OVAL DUCT IN INCHES
	ACOUSTIC THERMAL LINING
	FLEXIBLE DUCTWORK
FC	FLEXIBLE CONNECTION
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE AND SMOKE DAMPER
VD	VOLUME DAMPER
	DAMPER CONTROL, PARALLEL BLADE
	DAMPER CONTROL, OPPOSED BLADE
AAD	AUTOMATIC AIR DAMPER
BDD	BACK DRAFT DAMPER
BG	BLAST GATE
20/10 / 12X10 / 12X10 / 10/20	AIR DUCT (FIRST FIGURE IS DUCT WIDTH/TOP, SECOND FIGURE IS DUCT DEPTH)
	MULTI-BLADE AIR EXTRACTOR
	TURNING VANES
	EXISTING WORK TO BE REMOVED (HATCHED)
P	POINT OF CONNECTION
R	POINT OF DISCONNECTION
	AIR FLOW SENSOR
	FILTER
	TRANSITION SQUARE TO ROUND
	HUMIDIFIER DISPERSION TUBE
RISE / R	RISE IN DUCT
DROP / D	DROP IN DUCT
	SQUARE CEILING DIFFUSER (4 WAY)
	ROUND CEILING DIFFUSER
	SQUARE OR RECTANGULAR CEILING GRILLE
	SUPPLY REGISTER, RETURN OR EXHAUST GRILLE
1-WAY 2-WAY 3-WAY	SUPPLY DIFFUSER, 1-WAY, 2-WAY, 3-WAY
8"Ø, D-3, 300 CFM	CEILING DIFFUSER WITH NECK SIZE, TYPE, & CFM
10"x10", G-3, 300 CFM	CEILING RETURN OR EXHAUST GRILLE WITH SIZE, TYPE, & CFM
10"x8", R-2, 300 CFM	SUPPLY REGISTER WITH SIZE, TYPE, & CFM
10"x8", G-2, 300 CFM	RETURN OR EXHAUST GRILLE WITH SIZE, TYPE, & CFM
	AIR FLOW
L1	ACOUSTIC/THERMAL DUCTWORK LINING - 1 INCH THICK
L2	ACOUSTIC/THERMAL DUCTWORK LINING - 2 INCH THICK
PL1	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 1 INCH THICK
PL2	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 2 INCH THICK

SYMBOL	DESCRIPTION
24X12 / 12X10 / VD	SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
24X12 / 8"Ø / VD	SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
14"Ø / 10"Ø / VD	SUPPLY AIR TAKEOFFS
14"Ø / 10"Ø / VD	SUPPLY AIR TAKEOFFS
24X12 / 6X12 / 12X10 / 18X12 / 20X12	SUPPLY AIR TAKEOFFS
24X12 / 12X10 / VD	SUPPLY/RETURN EXHAUST AIR TAKEOFFS W/ REGISTER/GRILLE/ DIFFUSER
VD / VD	SUPPLY/RETURN EXHAUST AIR END OF MAIN BRANCH TAKEOFFS
VD / VD	SUPPLY/RETURN EXHAUST AIR END OF MAIN BRANCH TAKEOFFS
W / R	LONG RADIUS 90° ELBOW R/W=1.5
W / R	LONG RADIUS 45° ELBOW R/W=1.5
R	90° ELBOW WITH TURNING VANES
18X16 / 18X8 / 18X8	90 VERTICAL SPLIT OFF (PLAN VIEW)
20X10 / 20X10	DUCT TURNING UP OR DOWN
U MAX MIN	AIR TERMINAL UNIT-DUCTWORK U - UNIT TYPE MAX = MAXIMUM CFM MIN = MINIMUM CFM
U GPM MAX	AIR TERMINAL UNIT-DUCTWORK U - UNIT TYPE GPM = GALLONS PER MIN MAX = MAXIMUM GPM
U MAX MIN FAN	FAN POWERED AIR TERMINAL UNIT U - UNIT TYPE MAX = PRIMARY MAX CFM MIN = PRIMARY MIN CFM FAN = FAN CFM
TYPE / COIL SIZE / CLNG GPM / HTNG GPM	TYPE = VALANCE TYPE COIL SIZE = COIL LENGTH CLNG GPM = COOLING GPM HTNG GPM = HEATING GPM
X / XX	X = DIFFUSER OR GRILL TYPE XX = AIR FLOW VALUE (CFM)

SYMBOL	DESCRIPTION
	ELECTRIC/PNEUMATIC SWITCH OR RELAY
	PNEUMATIC/ELECTRIC SWITCH OR RELAY
CT	CURRENT TRANSDUCER
	OPEN/CLOSED
	START/STOP
	ENABLE/DISABLE
	TEMPERATURE SENSOR (DUCT OR PIPE MOUNTED)
	HUMIDITY SENSOR (DUCT MOUNTED)
	FLOW TRANSMITTER
	PRESSURE TRANSMITTER
	DIFFERENTIAL PRESSURE TRANSMITTER
	ELECTRIC/PNEUMATIC TRANSDUCER
	ELECTRIC/ELECTRONIC TRANSDUCER
	DUCT SMOKE DETECTOR
T	SPACE THERMOSTAT
	SPACE TEMPERATURE SENSOR
CO2	SPACE CARBON DIOXIDE SENSOR
CH4	SPACE NATURAL GAS SENSOR
CO	SPACE CARBON MONOXIDE SENSOR
G	SPACE SENSOR WITH GUARD
H	SPACE HUMIDISTAT
FS	WATER FLOW SENSOR
	PNEUMATIC ACTUATOR
	ELECTRIC ACTUATOR
VSD / VFD	VARIABLE SPEED / FREQUENCY DRIVE
C	COOLING COIL
H	HEATING COIL
F	GAS FURNACE
H	HUMIDIFIER
A	ALARM
S	STATUS
FS	FLOW SWITCH
DP	DIFFERENTIAL STATIC PRESSURE SWITCH
R	RELAY
	PRESSURE GAUGE
PI	FREEZE-STAT
DI	DIGITAL INPUT (TO BUILDING MANAGEMENT SYSTEM)
DO	DIGITAL OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
AO	ANALOG OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
AI	ANALOG INPUT (TO BUILDING MANAGEMENT SYSTEM)
	ELECTRICAL INTERFACE
SF	SPEED FEED BACK
ES	END SWITCH
PT	POSITION FEEDBACK
	TRAVERSE AVERAGING SENSOR
	PROBE SENSOR
	FREEZE STAT SENSOR

SYMBOLS GENERAL NOTES:

1) VALVE AND DAMPER ACTUATOR TYPES (ELECTRIC OR PNEUMATIC) WHICH ARE INDICATED IN HVAC TEMPERATURE CONTROL DRAWINGS SHALL SUPERSEDE TYPE INDICATED ON ALL OTHER HVAC DRAWINGS.

HVAC CONTRACTOR GENERAL NOTES:

A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS WITHIN THE BUILDING PRIOR TO COMMENCEMENT OF ALL DEMOLITION AND NEW WORK.

B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS, FOR PERFORMING DEMOLITION OR NEW WORK WITHIN THE BUILDING. THE EXISTING CEILINGS SHALL BE REMOVED IN A MANNER TO AVOID DAMAGE TO THE CEILING SYSTEMS. STORAGE OF CEILING SYSTEM COMPONENTS FOR REINSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STORAGE OF ALL MATERIAL SHALL BE IN AREAS OR LOCATIONS APPROVED BY THE OWNER. THE OWNER WILL NOT COMPENSATE FOR ANY DAMAGED OR LOST MATERIAL WHILE IN STORAGE. AFTER COMPLETION OF ALL DEMOLITION OR NEW WORK, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION.

C. DEMOLITION DRAWINGS SHOW MAJOR EQUIPMENT, PIPING, AND DUCTWORK REMOVALS. THE INTENT IS NOT TO IDENTIFY ALL MISCELLANEOUS PIPING, PIPING ACCESSORIES, DUCTWORK, DUCTWORK ACCESSORIES, SUPPORTS, CONTROLS, CONTROL ACCESSORIES, CONTROL WIRING, CONDUIT, AND PNEUMATIC CONTROL TUBING TO BE DISCONNECTED AND REMOVED, BUT IS THE REQUIREMENT UNDER THIS CONTRACT. NO EQUIPMENT, PIPING, OR DUCTWORK SHALL BE ABANDONED IN PLACE, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

D. ALL EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE DISCONNECTED AND REMOVED FROM THE EXISTING SYSTEMS AND DELIVERED (INCLUDING LOADING AND UNLOADING) TO A STORAGE AREA WITHIN THE BUILDING AS SELECTED BY THE OWNER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY EQUIPMENT DAMAGED DURING REMOVAL AND DELIVERY. ANY DAMAGE TO EQUIPMENT PRIOR TO DISCONNECTING SHOULD BE REPORTED TO THE OWNER'S REPRESENTATIVE. IF NOT REPORTED, THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR REPAIRS TO THE EQUIPMENT.

E. BEFORE DISCONNECTING, REMOVING, OR SERVICING ANY AIR CONDITIONING EQUIPMENT OR SYSTEMS CONTAINING REFRIGERANTS, THE EQUIPMENT OR SYSTEMS SHALL BE EVACUATED OF ALL REFRIGERANT PER THE LATEST ADOPTED RULES AND REGULATIONS BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). THE CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE CERTIFIED BY AN EPA APPROVED CERTIFYING AGENCY OR ORGANIZATION.

F. ALL DUCTWORK, PIPING, AND CONDUIT PENETRATIONS THROUGH RATED WALLS OR FLOORS SHALL BE PROVIDED WITH FIRE/SMOKE STOPPINGS PER SPECIFICATION. REFER TO CODE ANALYSIS DRAWING FOR ALL RATED WALL LOCATIONS. ALL FLOORS SHALL BE CONSIDERED RATED.

G. UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THIS CONTRACT TO PATCH AND FINISH ALL EXISTING DUCTWORK OR PIPE PENETRATIONS THROUGH FLOORS, ROOFS, INTERIOR WALLS, AND EXTERIOR WALLS AFTER DEMOLITION WORK. IN ADDITION, ALL NEW PENETRATIONS SHALL BE PROVIDED FOR INSTALLATION OF MECHANICAL SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, CURBING, DUCTWORK, PIPING, CONTROLS, ETC. PATCHING AND FINISHING SHALL MATCH EXISTING CONSTRUCTION INCLUDING FIRE RATINGS. PROVIDE LINTELS PER LINTEL SCHEDULE.

H. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL AIR VENTS AND DRAINS IN THE PIPING SYSTEMS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AIR VENTS AT ALL SYSTEM HIGH POINTS AND AT AREAS WITHIN THE PIPING SYSTEMS THAT COULD ACCUMULATE OR TRAP AIR WHICH WOULD PREVENT PROPER VENTING OR OPERATION OF THE SYSTEMS. DRAINS SHALL BE PROVIDED AT ALL LOW POINTS WITHIN THE PIPING SYSTEM TO FACILITATE COMPLETE DRAINING OF THE SYSTEM .

I. PROVIDE THERMAL EXPANSION COMPENSATORS AND THERMAL EXPANSION LOOPS IN PIPING SYSTEM PER INDUSTRY STANDARDS.

CPLteam.com
ARCHITECTURE ▪ ENGINEERING ▪ PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

DAVID R. HART — No. 075795 — LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT
SED# 66-14-01-03-0-001-022

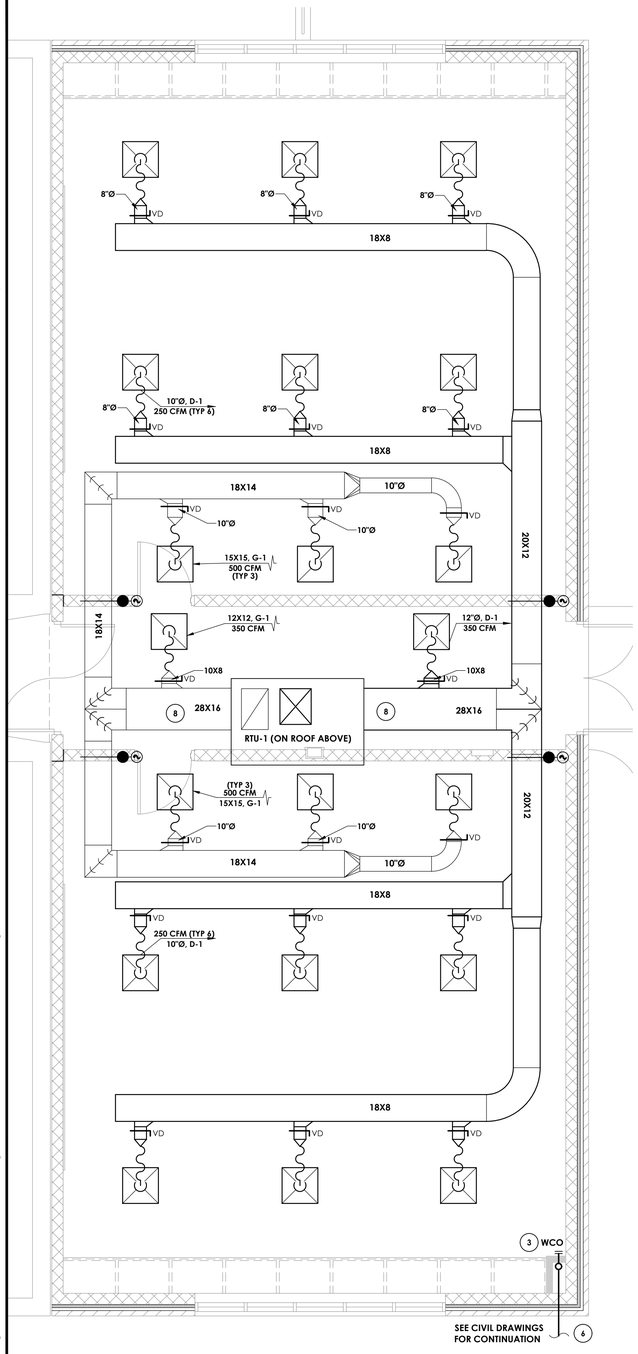
DATE	DRAWN	CHECKED
12/18/20	BKM	JJM

SCALE NTS

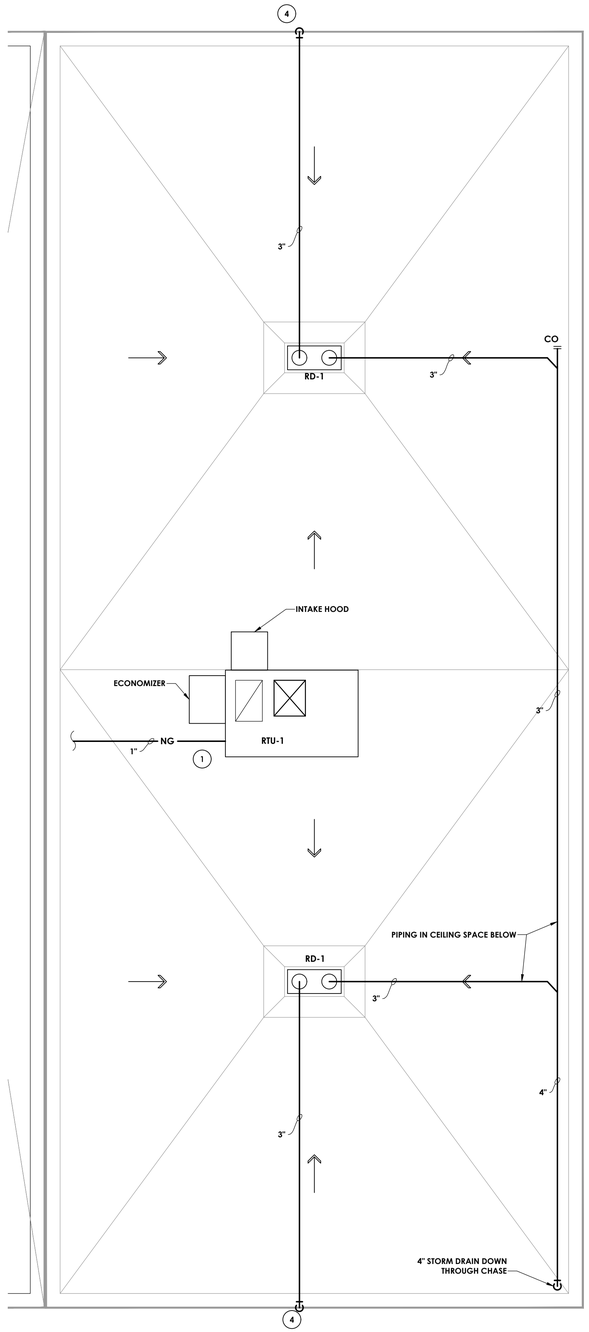
SHEET TITLE
HVAC SYMBOLS LIST

PROJECT NUMBER
14428.11

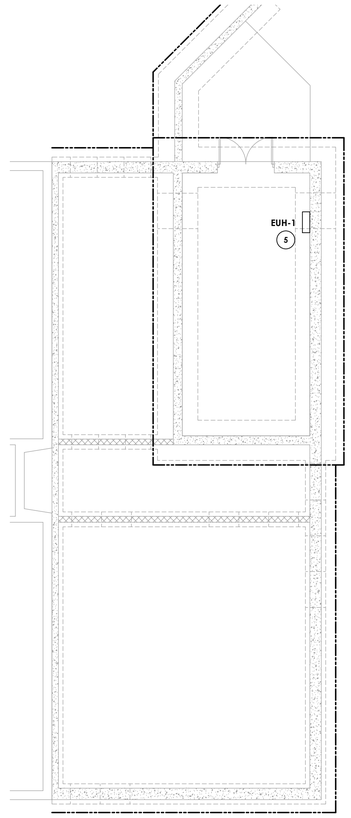
BES
H000
DRAWING NUMBER



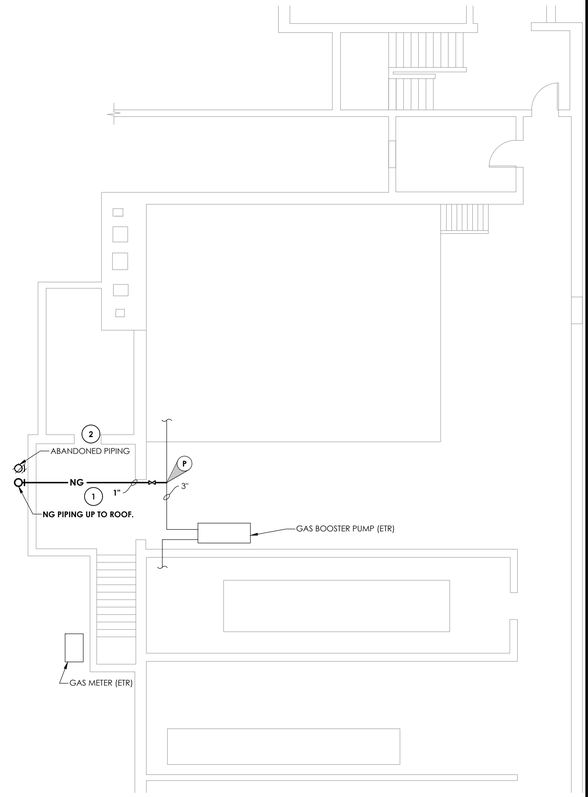
1 H200 **FIRST FLOOR NEW WORK PLAN**
SCALE: 1/4" = 1'-0"



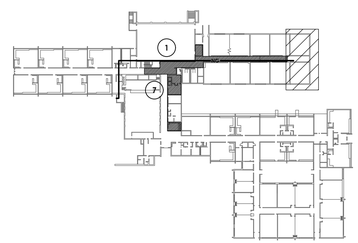
2 H200 **ROOF NEW WORK PLAN**
SCALE: 1/4" = 1'-0"



3 H200 **STORAGE ROOM NEW WORK PLAN**
SCALE: 1/8" = 1'-0"



4 H200 **BOILER ROOM NEW WORK PLAN**
SCALE: 1/8" = 1'-0"



KEY PLAN
SCALE: N.T.S.

KEY NOTES:

1. RUN 300 FEET OF NATURAL GAS PIPING ALONG ROOF TO NEW RTU-1.
2. REMOVE EXISTING ABANDONED 1" PIPE ALONG SIDE OF BUILDING UP TO ROOF.
3. ROUTE STORM DRAIN THROUGH PIPE CHASE BELOW. COORDINATE FINAL LOCATION WITH GENERAL CONTRACTOR.
4. SECONDARY DRAIN TO DOWNSPOUT NOZZLE. SEE DETAIL 3/H800.
5. MOUNT 2 FEET ABOVE FINISHED FLOOR.
6. COORDINATE CONNECTION WITH SITE CONTRACTOR TO DISCHARGE TO EXISTING STORM DRAIN SYSTEM. PLUMBING CONTRACTOR TO PROVIDE FIRST 5' OUTSIDE OF BUILDING.
7. REMOVE AND REINSTALL ALL EXISTING MECHANICAL EQUIPMENT IN CEILINGS TO BE REMOVED BY ASBESTOS ABATEMENT CONTRACTOR INCLUDING DIFFUSERS, GRILLES, AND EQUIPMENT. REINSULATE PIPING THAT HAS ASBESTOS REMOVED. (60 LF - VERIFY).
8. PROVIDE INTERNAL DUCT INSULATION FOR THE FIRST 10' OF DUCTWORK FROM RTU-1 ON BOTH THE SUPPLY AND RETURN SIDES.

CPLteam.com
ARCHITECTURE ▪ ENGINEERING ▪ PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

STATE OF NEW YORK
DAVID R. HART
No. 075790
LICENSED PROFESSIONAL ENGINEER

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
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SHEET TITLE
HVAC NEW WORK

PROJECT NUMBER
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H200
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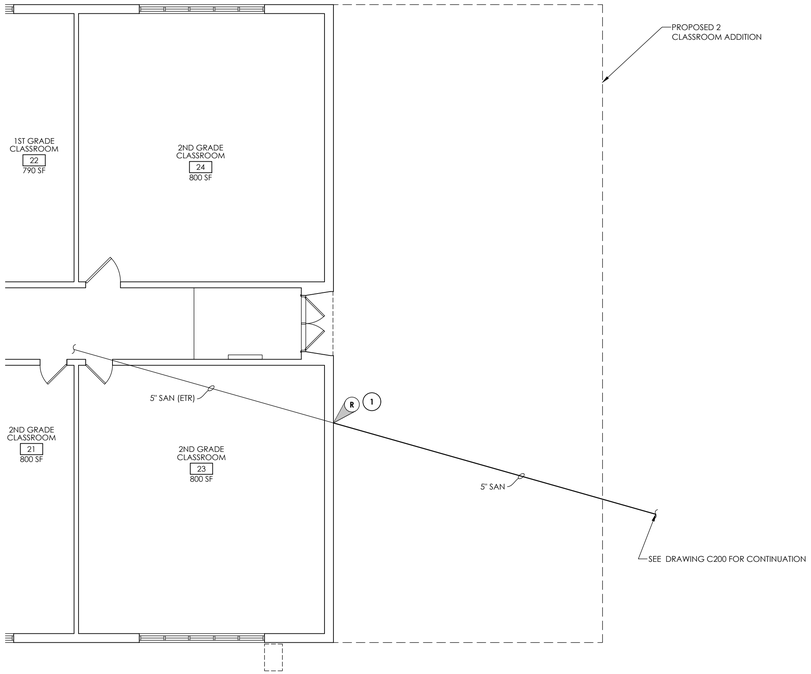
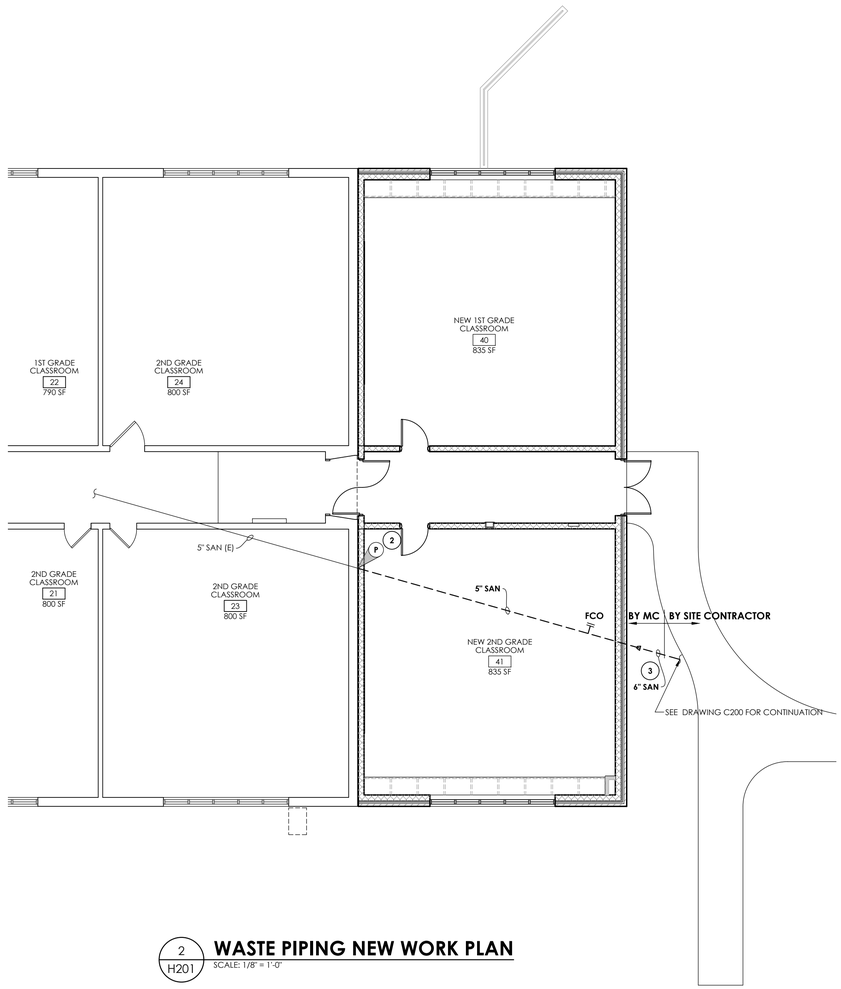
Plotted By: Brendon Mazza
Date last plotted: 1/18/2021 10:59 AM
Date last acRPCsed: 1/11/2021 1:12 PM
Drawing Name: S:\Projects\Ossining UFSD\Brookside 2 CR Addn\D Design\06 CAD\AutoCAD\MECH\H2\H200.dwg

KEY NOTES:

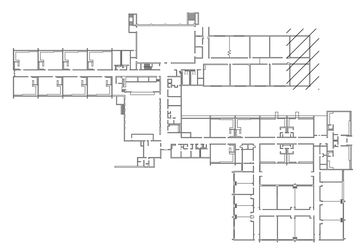
1. SITE CONTRACTOR TO REMOVE EXISTING PIPE TO POINT INDICATED. SEE C200 FOR CONTINUATION.
2. INSTALL NEW 5" SANITARY DRAIN FROM EXISTING BUILDING BELOW SLAB OF NEW ADDITION. SEE CIVIL DRAWINGS FOR CONTINUATION.
3. MECHANICAL CONTRACTOR TO PROVIDE PIPING INSIDE THE BUIDING TO 5' OUTSIDE THE BUILDING.



1 H201 **WASTE PIPING DEMOLITION PLAN**
SCALE: 1/8" = 1'-0"



2 H201 **WASTE PIPING NEW WORK PLAN**
SCALE: 1/8" = 1'-0"



KEY PLAN
SCALE: N.T.S.

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50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

STATE OF NEW YORK
JAY D. R. HART
LICENSED PROFESSIONAL ENGINEER
No. 075790

OSSINING UNION FREE
SCHOOL DISTRICT
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SHEET TITLE
WASTE DEMOLITION
AND NEW WORK PLANS

PROJECT NUMBER
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ROOFTOP AIR CONDITIONING UNIT SCHEDULE

MARK	LOCATION	NOM. TONS	SUPPLY FAN				COOLING CAPACITY							HTG CAP. N.G.				ELECTRICAL		ENERGY RECOVERY WHEEL						TYPICAL UNIT MFG & MODEL NO.	REMARKS:
										EAT°F		LAT°F								SUMMER			WINTER				
			CFM	OA CFM	ESP (IN. W.C.)	BHP / HP	TOTAL MBH	SENS MBH	EFFICIENCY	DB	WB	DB	WB	AMB °F	INPUT MBH	OUTPUT MBH	EAT°F DB	LAT°F DB	VOLT/Ø	MCA	OA (DB)	RA (DW)	SA (DB)	OA (DB)	RA (DB)	SA (DB)		
RTU-1	ROOF	7.5	3350	1100	0.85	2.23/3	98	75.3	12.0 EER/ 14.60 IEER	76.4	63.5	55.6	53.5	92	120	96	61.6	88.1	208/3	46.3	92	75	78.9	-2	68	50.5	TEMPMASTER ZWT07N12H2DCE11AA8	1, 2
REMARKS:	1. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.																											
	2. DRY BULB LOW LEAK ECONOMIZER W/ BAROMETRIC RELIEF AND HOODS.																											

ELECTRIC UNIT HEATER SCHEDULE

MARK	LOCATION	CAPACITY BTU/H	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)	WEIGHT (LBS)	ELECTRIC			TYPICAL UNIT MFG & MODEL NO.	REMARKS:
							VOLTS	PHASE	Watts		
EUH-1	STORAGE ROOM S-1	10250	28	10	26	115	208	1	3000	REZNOR - EMC	1, 2
REMARKS:	1. ARCHITECT TO CHOOSE COLOR.										
	2. PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT.										

PLUMBING EQUIPMENT & FIXTURE SCHEDULE

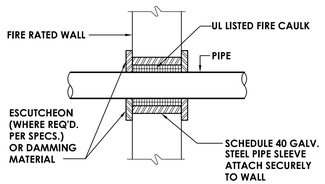
MARK	FIXTURE	SAN	DESCRIPTION	MANUFACTURER & MODEL NUMBER	REMARKS
RD-1	COMBINATION ROOF AND OVER FLOW DRAIN	3	ROOF DRAIN, 12" DIA DOME WITH ADJUSTABLE COLLAR, SUMP RECIEVER, UNDER DECK CLAMP WITH OVERFLOW DRAIN	ZURN Z164	1
REMARKS:	1. SIZED PER PLAN.				

REGISTERS, GRILLES, AND DIFFUSERS

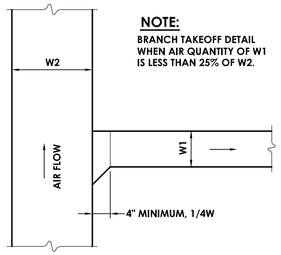
MARK	APPLICATION	MATERIAL	TYPE	FINISH	FACE SIZE	DESIGN EQUIP.	REMARKS
D-1	SUPPLY	STEEL	LAY-IN	WHITE	24X24	PRICE SCD	
G-1	RETURN/EA	STEEL	LAY-IN	WHITE	24X24	PRICE PDDR	
REMARKS:							

OSSINING BROOKSIDE ELEMENTARY OUTSIDE AIR CALCULATIONS

Space	Occupancy Classification	TOTAL SQ. FT.	Occupant Density #/1000sq.ft.	TOTAL OCCUPANCY FOR VENTILATION	O.A. PER PERSON (CFM)	O.A. PER SQ. FT. (CFM)	Vbz (CFM)	Ez	Voz=Vot (CFM)	Required Exhaust
Classroom 40	Classroom (Ages 9+)	835	35	30	10	0.12	400	0.8	500	
Classroom 41	Classroom (Ages 9+)	835	35	30	10	0.12	400	0.8	500	
Corridor	Corridor	225	0.00	-	0	0.06	14	0.8	17	

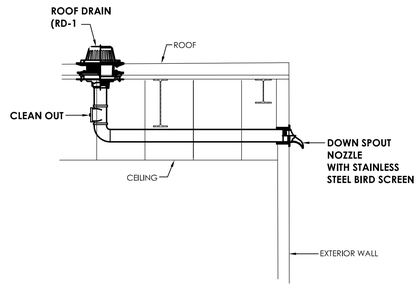


1 H800 **PIPE THROUGH RATED WALL**
NOT TO SCALE

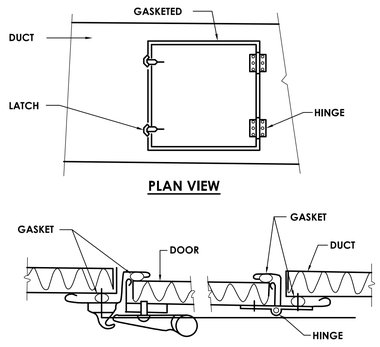


NOTE:
BRANCH TAKEOFF DETAIL WHEN AIR QUANTITY OF W1 IS LESS THAN 25% OF W2.

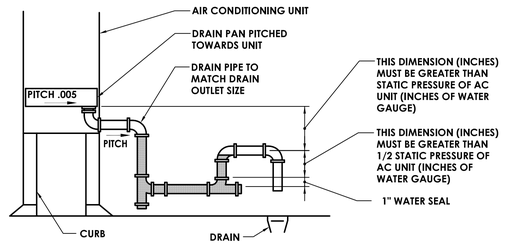
2 H800 **BRANCH TAKE-OFF DETAIL**
NOT TO SCALE



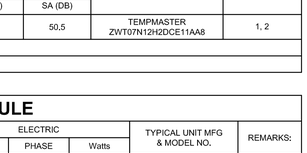
3 H800 **SECONDARY DRAIN DETAIL**
NOT TO SCALE



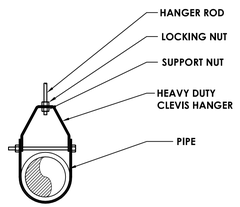
4 H800 **ACCESS DOOR DETAIL**
NOT TO SCALE



5 H800 **AHU CONDENSATE TRAP DETAIL**
NOT TO SCALE

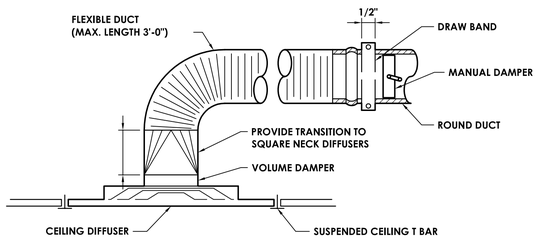


6 H800 **TYPICAL GAS CONNECTION DETAIL**
NOT TO SCALE

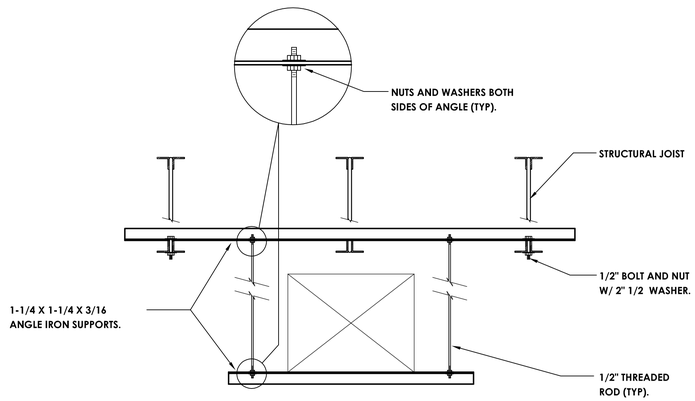


CLEVIS HANGER
SINGLE HORIZONTAL RUNS
NO VAPOR BARRIER INSULATION

7 H800 **PIPE SUPPORT DETAIL**
NOT TO SCALE



8 H800 **DIFFUSER DETAIL**
NOT TO SCALE



9 H800 **DUCT HANGER DETAIL**
NOT TO SCALE

CPLteam.com
ARCHITECTURE ▪ ENGINEERING ▪ PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

REVISIONS NO.	DATE	DESCRIPTION
2	04/27/2021	AJS SED ADDENDUM NO 2

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT
SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	BKM	AJS

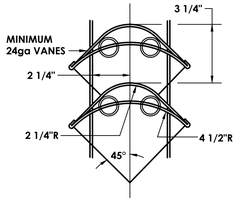
SCALE NTS

SHEET TITLE
HVAC SCHEDULES AND DETAILS

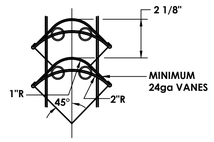
PROJECT NUMBER
14428.11

BES
H800
DRAWING NUMBER

Plotted By: Mark Johnson
Date last plotted: 5/14/2021 9:22 AM
Date last acRPCsed: 5/10/2021 4:54 PM
Drawing Name: S:\Projects\Ossining UFSD\Brookside 2 CR Add\D Design\06 CAD\AutoCAD\MECH\H8\H800.dwg

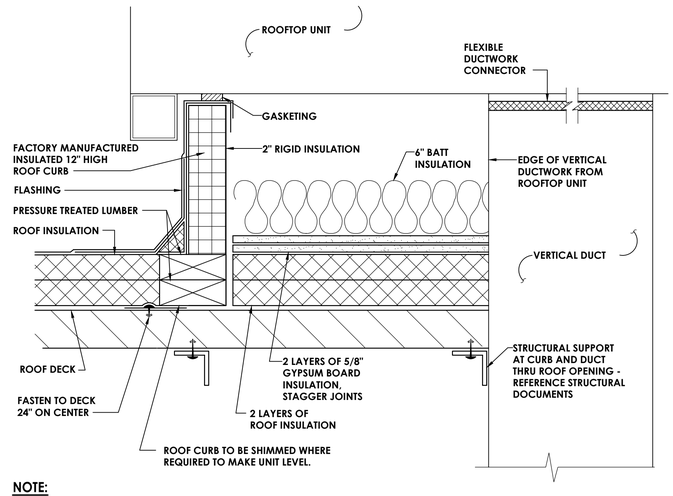


VANES FOR SQUARE THROAT
ELBOWS OVER 20" WIDE



VANES FOR SQUARE THROAT
ELBOWS THRU 20" WIDE

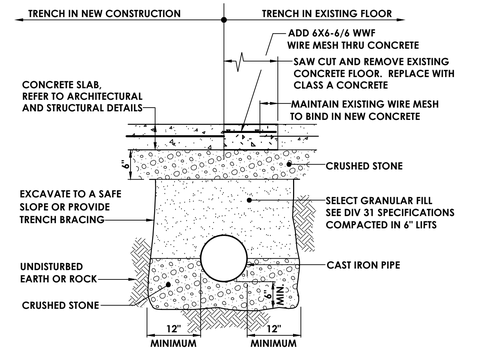
1 / H801 **TYPICAL TURNING VANE DETAIL**
NOT TO SCALE



NOTE:

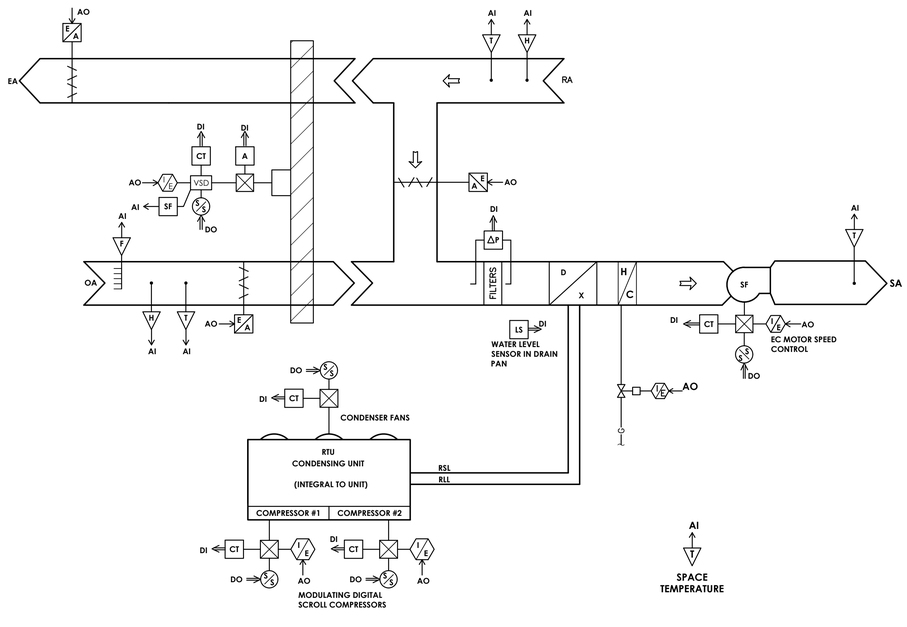
ALL ROOF TOP HVAC UNITS REQUIRED TO HAVE CURB AND CURB INTERIOR AS SHOWN.
CURB TO BE SUPPLIED BY MC, INSTALLED BY GC

2 / H801 **ROOFTOP UNIT - ROOF CURB DETAIL**
NOT TO SCALE



NOTE: FOR OTHER PIPE MATERIALS, PLEASE REFER ALSO TO MANUFACTURER BEDDING/BACKFILL REQUIREMENTS

3 / H801 **PIPE TRENCH DETAIL - UNDER SLAB WITHIN BUILDING FOOTPRINT**
NOT TO SCALE



4 / H801 **RTU-1 CONTROLS DIAGRAM**
SCALE: NOT TO SCALE

CPLteam.com
ARCHITECTURE ▪ ENGINEERING ▪ PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

STATE OF NEW YORK
DAVID R. HART
No. 075790
LICENSED PROFESSIONAL ENGINEER

OSSINING UNION FREE
SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT

SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	BKM	AJS

SCALE NTS

SHEET TITLE
HVAC DETAILS AND
CONTROLS DIAGRAM

PROJECT NUMBER
14428.11

BES
H801
DRAWING NUMBER

WIRING LEGEND:

- S. SWITCH
  - (NONE) SINGLE POLE TOGGLE SWITCH
  - 2 TWO POLE TOGGLE SWITCH
  - 3 THREE WAY TOGGLE SWITCH
  - 4 FOUR WAY TOGGLE SWITCH
  - WP SINGLE POLE WEATHER PROOF SWITCH
  - K SINGLE POLE KEYED SWITCH
  - K2 TWO POLE KEYED SWITCH
  - K3 THREE WAY KEYED SWITCH
  - K4 FOUR WAY KEYED SWITCH
  - P SINGLE POLE SWITCH WITH PILOT LIGHT
  - TM SINGLE POLE SWITCH WITH ONE HOUR TIMER
  - T THERMAL SWITCH
  - TP THERMAL SWITCH WITH PILOT LIGHT
  - M MOMENTARY CONTACT SWITCH
- SII ROMAN NUMERAL DESIGNATES NUMBER OF SWITCHES
- So LOWER CASE LETTER DESIGNATES SWITCH LEG
- SINGLE RECEPTACLE
- PLUG MOLD
- DUPLEX RECEPTACLE
- QUADRAPLEX RECEPTACLE
- SPECIAL RECEPTACLE
  - GFI GROUND FAULT CIRCUIT INTERRUPTER
  - WP WEATHER PROOF IN-USE COVER
  - SS SURGE SUPPRESSION
  - C COUNTER HEIGHT
  - TR TAMPER RESISTANT, UL LISTED
  - IG ISOLATED GROUND
  - RT RAIN TITE
  - E EMERGENCY
  - X TYPE X (SEE RECEPTACLE SCHEDULE)
- PP POWER POLE
- RECESSED FLOOR MOUNTED DUPLEX RECEPTACLE
- SURFACE MOUNTED FLOOR RECEPTACLE
- CEILING MOUNTED DUPLEX RECEPTACLE
- —C— CONDUIT
- —W— EXPOSED LOW VOLTAGE WIRING
- HORIZONTAL NON-METALLIC WIREWAY WITH DATA JACK OUTLETS AND ISOLATED GROUND TYPE DUPLEX RECEPTACLES
- VERTICAL NON-METALLIC WIREWAY WITH DATA JACK OUTLETS AND ISOLATED GROUND TYPE DUPLEX RECEPTACLES
- —WM— WIRE MOLD
- J. JUNCTION BOX
  - F FIRE SYSTEM
  - S SECURITY SYSTEM
- DISCONNECT SWITCH
- DISCONNECT SWITCH - WEATHER PROOF (NEMA 3R)
- F FUSED DISCONNECT SWITCH
- COMBINATION FUSED DISCONNECT/ MAGNETIC STARTER SWITCH
  - HOA HAND/OFF/AUTO
  - SS START/STOP
- M MANUAL STARTER
- VSD COMBINATION VARIABLE SPEED DRIVE AND DISCONNECT
- VSD VARIABLE SPEED DRIVE
- ST/SP PUSHBUTTON - START, STOP
- ST/SP/PL PUSHBUTTON - START, STOP, WITH PILOT LIGHT
- UP/DN/SP PUSHBUTTON - UP, DOWN, STOP
- EF-1 MOTOR WITH DESIGNATOR
- TC TIME CLOCK
- WH WATER HEATER
- HD HAND DRYER, HARD WIRED
- T THERMOSTAT
- HVP1-6 BRANCH CIRCUIT HOME RUN WITH PANEL NAME AND CIRCUIT NUMBER. QUANTITY OF ARROWHEADS DENOTES QUANTITY OF BRANCH CIRCUITS
  - GFI BKR. GFI TYPE BREAKER
  - A.F. BKR. ARC FAULT BREAKER
- BRANCH CIRCUIT WIRING. PROVIDE QUANTITIES OF CONDUCTORS REQUIRED FOR CIRCUITING AND SWITCHING AS INDICATED
- POWER LEG ONLY (NO SWITCH LEG BETWEEN ROOMS)
- HARDWIRE CONNECTION
- CONDUIT RISER UP
- CONDUIT RISER DOWN
- T TRANSFORMER
- TK TYPE "K" TRANSFORMER
- MUSHROOM HEAD PUSH BUTTON (EMERGENCY STOP)
- EMERGENCY BREAK GLASS STATION
- GROUNDING ROD

SINGLE LINE DIAGRAM LEGEND:

- EARTH GROUND
- CHASSIS GROUND
- 45 KVA 480-208/120V K-13 — TRANSFORMER - KVA, PRIMARY AND SECONDARY VOLTAGE INDICATED, CONNECTIONS, K-RATING, AND SHIELD SPECIFIED
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- FUSE
- DISCONNECT/LOADBREAK SWITCH
- CIRCUIT BREAKER
- CIRCUIT BREAKER DRAWOUT MOUNTED (LOW VOLTAGE)
- AUTOMATIC TRANSFER SWITCH (NORMAL POSITION SHOWN)
- METER
- ENCLOSED CIRCUIT BREAKER
- LIGHTNING ARRESTER
- FUSED DISCONNECT SWITCH
- PANEL 208-120V 225A — PANELBOARD- RATINGS AS SPECIFIED IN SINGLE LINE DIAGRAM AND ON PANELBOARD SCHEDULE

COMMUNICATIONS LEGEND:

- TELEPHONE (1) CAT3 - TELEPHONE JACK & CABLE
  - (NONE) STANDARD MODULAR JACK FOR TELEPHONE
  - W WALL MOUNTED TELEPHONE MODULAR JACK
  - P PUBLIC TELEPHONE MODULAR JACK
  - C COUNTER HEIGHT MODULAR JACK
- TELEPHONE FLOOR OUTLET (1) CAT3 - TELEPHONE JACK & CABLE
- DATA OUTLET WITH FLUSH BOX AND FACEPLATE (1) CAT6 - DATA JACK & CABLE
- COMPUTER FLOOR OUTLET (1) CAT6 - DATA JACK & CABLE
- COMBINATION TELEPHONE CABLE AND DATA OUTLETS IN DOUBLE GANG FLUSH MOUNTED BOX WITH FACEPLATE
- WT WIRELESS TRANSMITTER (PROVIDED BY OWNER) CONTRACTOR TO PROVIDE (2) CAT6 DATA JACKS & CABLING
- T/D BACK BOX FOR OWNER PROVIDED TEL/COM WIRING & DEVICES
- DATA RACK
- COAX CABLE (TYPE F CONNECTOR)
- CEILING MOUNT LCD PROJECTOR
- SPEAKER (PUBLIC ADDRESS)
  - (NONE) CEILING MOUNTED
  - W WALL MOUNTED
- SPEAKER (LOCAL SOUND SYSTEM)
- SPEAKER HORN
- MICROPHONE JACK
- SPEAKER JACK
- VOLUME CONTROL
- CLOCK
- DOUBLE FACE CLOCK
- CS COMBINATION CLOCK AND SPEAKER
- IC INTERCOM STATION
- RMA RMP REMOTE PRE-AMPLIFIER AND PAGING MICROPHONE
- CONSOLE JACK
- HL HOUSE LIGHT CONTROL STATION
- WB WALL BOX AS SPECIFIED
- FB FLOOR BOX

NOTE:

SYMBOLS SHOWN ON THIS ELECTRICAL SYMBOLS LIST ARE FOR REFERENCE PURPOSES ONLY. ALL OF THESE SYMBOLS MAY NOT BE USED FOR THIS PROJECT.

FIRE/LIFE SAFETY LEGEND:

- FP FIRE ALARM PULL STATION
- FB FIRE ALARM BELL
- FH FIRE ALARM HORN
- FH FIRE ALARM HORN AND STROBE COMBINATION
- FH WP FIRE ALARM HORN AND STROBE COMBINATION, WEATHER PROOF
- FS FIRE ALARM SPEAKER
- FS C FIRE ALARM SPEAKER - CEILING MOUNTED
- FH FIRE ALARM SPEAKER AND STROBE COMBINATION
- FST FIRE ALARM STROBE
- FST FIRE ALARM STROBE - CEILING MOUNTED
- SMOKE DETECTOR
- S WG SMOKE DETECTOR WITH GUARD
- CO CARBON MONOXIDE DETECTOR
- CH4 NATURAL GAS SENSOR
- HEAT DETECTOR
- COMBINATION SMOKE/HEAT DETECTOR
- 190° HEAT DETECTOR - 190° FIXED TEMPERATURE
- EXP HEAT DETECTOR - EXPLOSION PROOF
- BT BEAM SMOKE DETECTOR TRANSMITTER
- BR BEAM SMOKE DETECTOR RECEIVER
- DUCT DETECTOR
  - SA INDICATES INSTALLATION IN SUPPLY AIR
  - RA INDICATES INSTALLATION IN RETURN AIR
- RTS REMOTE TEST STATION FOR DUCT DETECTOR
- FAR FIRE ALARM SHUT DOWN RELAY
- DH FIRE DOOR HOLD OPEN
- TS TAMPER SWITCH
- FS FLOW SWITCH
- FSS FIRE SUPRESSION ANSUL SYSTEM CONNECTION
- FSR SMOKE DAMPER RELAY CONNECTION
  - SD/FD SMOKE DAMPER AND FIRE DAMPER
  - SD SMOKE DAMPER
- CONTROL MODULE, ADDRESSABLE
- AREA OF RESCUE CALL STATION
- ARCA AREA OF RESCUE MASTER TELEPHONE STATION

SECURITY LEGEND:

- KP SECURITY KEY PAD
- VIDEO CAMERA
- VM CCTV VIDEO MONITOR
- MD PASSIVE INFRARED MOTION DETECTOR
- PR PROXIMITY CARD READER
- CS CALL SWITCH
- DC DOOR CONTACT
- WC WINDOW CONTACT
- ES ELECTRIC STRIKE DOOR RELEASE
- MD MAGNETIC DOOR RELEASE

NURSE CALL LEGEND:

- CB NURSE CALL BUTTON
- P NURSE CALL PATIENT BED STATION
- B CODE CALL BUTTON
- SA NURSE CALL STAFF ASSIST STATION
- S NURSE CALL STAFF STATION
- SD NURSE CALL DUTY/STAFF STATION
- D NURSE CALL DUTY STATION
- NURSE CALL LIGHT
- NURSE CALL CODE LIGHT
- NURSE CALL ZONE LIGHT
- M NURSE CALL MASTER STATION
- E NURSE CALL EMERGENCY PULL STATION
- IR NURSE CALL INFRARED SENSOR

LIGHT FIXTURE LEGEND:

- XX LIGHTING FIXTURE (SEE LIGHTING FIXTURE SCHEDULE FOR LETTER DESIGNATION AND DESCRIPTION OF FIXTURES)
- EMERGENCY AND/OR NIGHT LIGHT LIGHTING FIXTURE
- EXIT LIGHTING FIXTURE UNIVERSAL MOUNT, SINGLE/DOUBLE FACE (WHERE USED, ARROW INDICATES CHEVRON DIRECTION)
- BATTERY POWERED EMERGENCY LIGHT
- EMERGENCY LIGHT REMOTE HEAD
- TRACK LIGHTING
- POLE MOUNTED LIGHTING (QUANTITY AND ORIENTATION OF HEADS AS SHOWN)
- OCC OCCUPANCY SENSOR - CEILING MOUNTED
- VAC VACANCY SENSOR - CEILING MOUNTED
- OCW OCCUPANCY SENSOR - WALL MOUNTED
- LC LIGHTING CONTACTOR
- PC PHOTOCELL
- DL DAYLIGHT SENSOR
- S SWITCH
  - LV LOW VOLTAGE 1-4 BUTTON STATION (CONNECT TO LIGHTING CONTROL STATION)
  - O OCCUPANCY SENSOR SWITCH
  - D DIMMER (INCANDESCENT)
  - D3 THREE WAY DIMMER (INCANDESCENT)
  - DF DIMMER (FLUORESCENT)

PANEL LEGEND:

- EXISTING ELECTRICAL PANEL
- XXX NEW ELECTRICAL PANEL
  - MDP MAIN DISTRIBUTION PANEL
  - LVP LOW VOLTAGE PANEL
  - HVP HIGH VOLTAGE PANEL
  - LP LIGHTING CONTROL PANEL
  - IG ISOLATED GROUND PANEL
  - MSB MAIN SWITCH BOARD
  - MCC MOTOR CONTROL CENTER
  - TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION
- ATS AUTOMATIC TRANSFER SWITCH
- XXX ELECTRICAL SYSTEMS PANEL
  - SACP SECURITY ALARM CONTROL PANEL
  - FACP FIRE ALARM CONTROL PANEL
  - PA PUBLIC ADDRESS CONTROL PANEL
  - FAAP FIRE ALARM ANNUNCIATOR PANEL

ELECTRICAL PANELBOARD LABELING PLACARD

LINE 1 - PANELBOARD NAME: PP1 (EXAMPLE)
LINE 2 - VOLTAGE AND PHASE:480/277V-3PH-4W (EXAMPLE)
LINE 3 - WHERE PANELBOARD IS FED FROM: FF MSB BREAKER #14 (EXAMPLE)

GENERAL ELECTRICAL NOTES:

1) HATCHED AREAS ////// DESIGNATE EXISTING EQUIPMENT TO BE REMOVED, UNLESS OTHERWISE NOTED.
2) ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRIC CODE (NFPA 70).
3) CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND COORDINATE WITH EXISTING EQUIPMENT PRIOR TO BIDDING.

BUILDING:

4) INSTALLATION HEIGHT TO CENTER OF EQUIPMENT ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED TO BE:
   RECEPTACLE = 18"
   SWITCH = 44"
   MODULAR JACK FOR WALL MOUNTED TELEPHONE = 52"
   MODULAR TELEPHONE JACK = 18"
   AUDIO/VISUAL FIRE ALARM INDICATORS = 88"
   FIRE ALARM PULL STATIONS = 48"
   TELEVISION OUTLET = 7'-0"
   COMPUTER OUTLET = 18"
   CALL SWITCH = 44"
   REMOTE TEST STATION FOR DUCT DETECTOR = 52"
   C = ABOVE COUNTER BACKSPLASH, COORDINATE WITH ARCHITECTURAL ELEVATIONS AND MILLWORK.
5) INSTALL DATA JACKS FOR CEILING MOUNTED WIRELESS TRANSMITTERS ABOVE CEILING IN ALL AREAS WHERE THERE IS AN ACCESSIBLE CEILING. PROVIDE FLUSH MOUNTED JACKS IN ALL HARD CEILINGS.
6) ALL CONDUIT AND WIRING TO BE CONCEALED IN WALLS, FLOOR, OR ABOVE CEILINGS UNLESS OTHERWISE NOTED OR APPROVED BY THE ARCHITECT/ENGINEER. ALL DEVICE OUTLET BOXES SHALL BE RECESSED UNLESS OTHERWISE NOTED OR APPROVED BY THE ARCHITECT/ENGINEER. WHERE APPROVED OR NOTED, SURFACE METAL RACEWAY AND DEVICE BOXES SHALL BE USED IN-LIEU OF CONDUIT AND CONCEALED BOXES AT NO EXTRA COST TO THE OWNER.
7) ALL CONDUIT ROUTES SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY FINAL ROUTE.
8) CONDUIT RUNS SHOWN ARE SCHEMATICAL AND DO NOT INDICATE THE NECESSARY FITTINGS AND JUNCTION BOXES THAT ARE INCLUDED IN THE SCOPE OF THE WORK.

GROUNDING:

9) ALL METAL RACEWAYS, INCLUDING CONDUIT, WIRE TROUGHS, WIREMOLD, ETC., SHALL BE GROUNDED. ALL CONNECTIONS IN METAL RACEWAYS SHALL BE COMPLETED IN SUCH A MANNER AS TO MAINTAIN A CONTINUOUS PATH TO GROUND THROUGHOUT THE ENTIRE LENGTH OF THE RACEWAY.

WIRING:

10) UNLESS NOTED OTHERWISE ON THE DRAWINGS OR ON THE EQUIPMENT WIRING SCHEDULE, EACH BRANCH CIRCUIT SHALL BE THREE (3) #12 AWG THHN/THWN (1 HOT, 1 NEUTRAL & 1 EQUIPMENT GROUND) IN 3/4" EMT CONDUIT. PROTECT EACH CIRCUIT WITH A 20 AMPERE, 1-POLE OVERCURRENT DEVICE UNLESS OTHERWISE NOTED. PROVIDE #10 AWG FOR 120V BRANCH CIRCUITS LONGER THAN 100 FEET. COMBINED NEUTRALS ARE NOT PERMITTED.

CPLteam.com
ARCHITECTURE ▪ ENGINEERING ▪ PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

STATE OF NEW YORK — ANTHONY R. MASCETTI — LICENSED PROFESSIONAL ENGINEER — No. 102057

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT
SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	MAY	JBT

SCALE AS SHOWN

SHEET TITLE
ELECTRICAL LEGEND AND NOTES

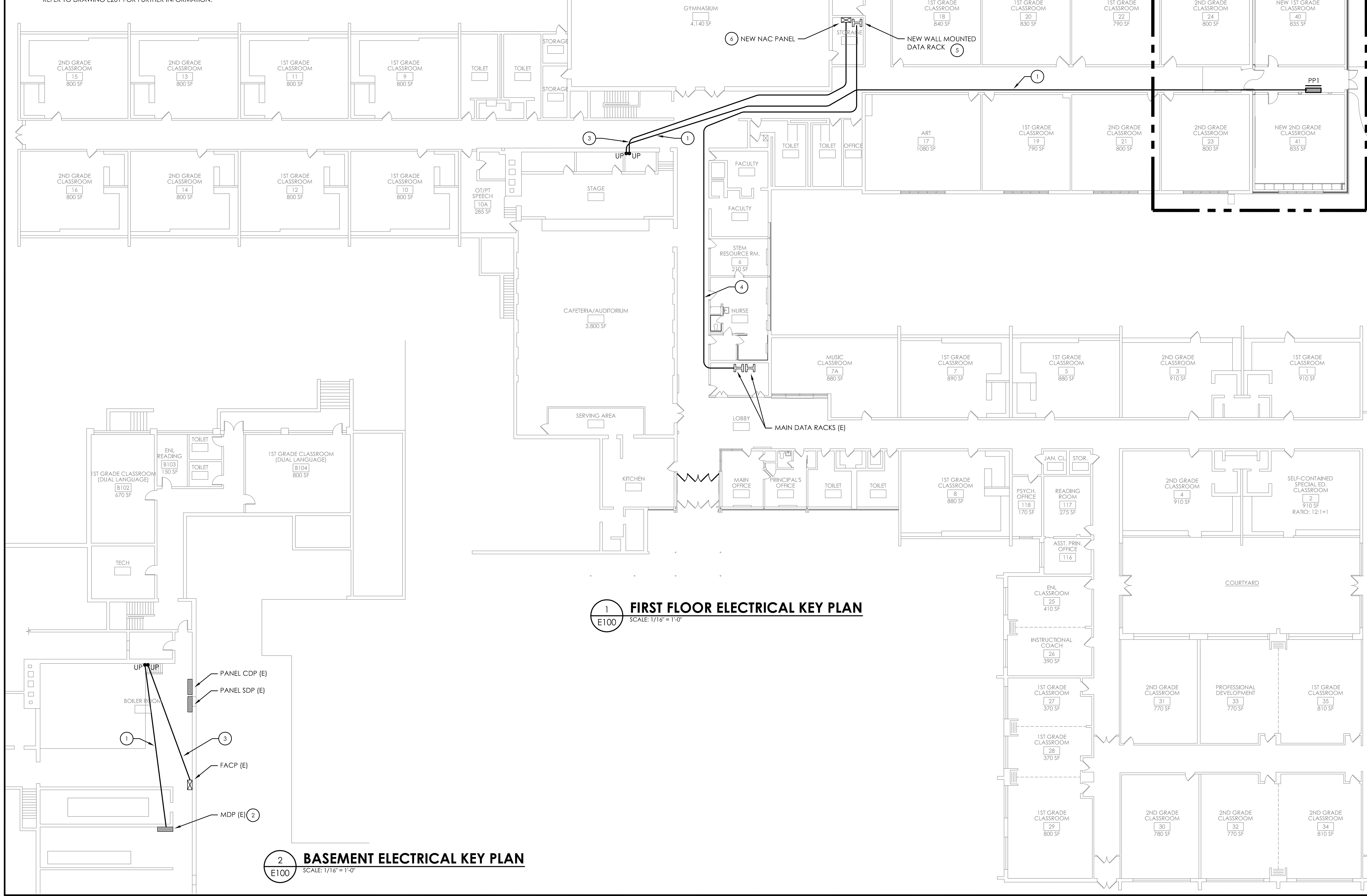
PROJECT NUMBER
14428.11

BES
E000
DRAWING NUMBER

Drawing Name: S:\Projects\Ossining UFSD\Brookside 2 CR Add\D Design\06 CAD\AutoCAD\ELEC\E0\BES-E000.dwg
Date last acRPCsed: 1/4/2021 10:37 AM
Date last plotted: 1/14/2021 2:18 PM
Plotted By: Jeffery Teeter

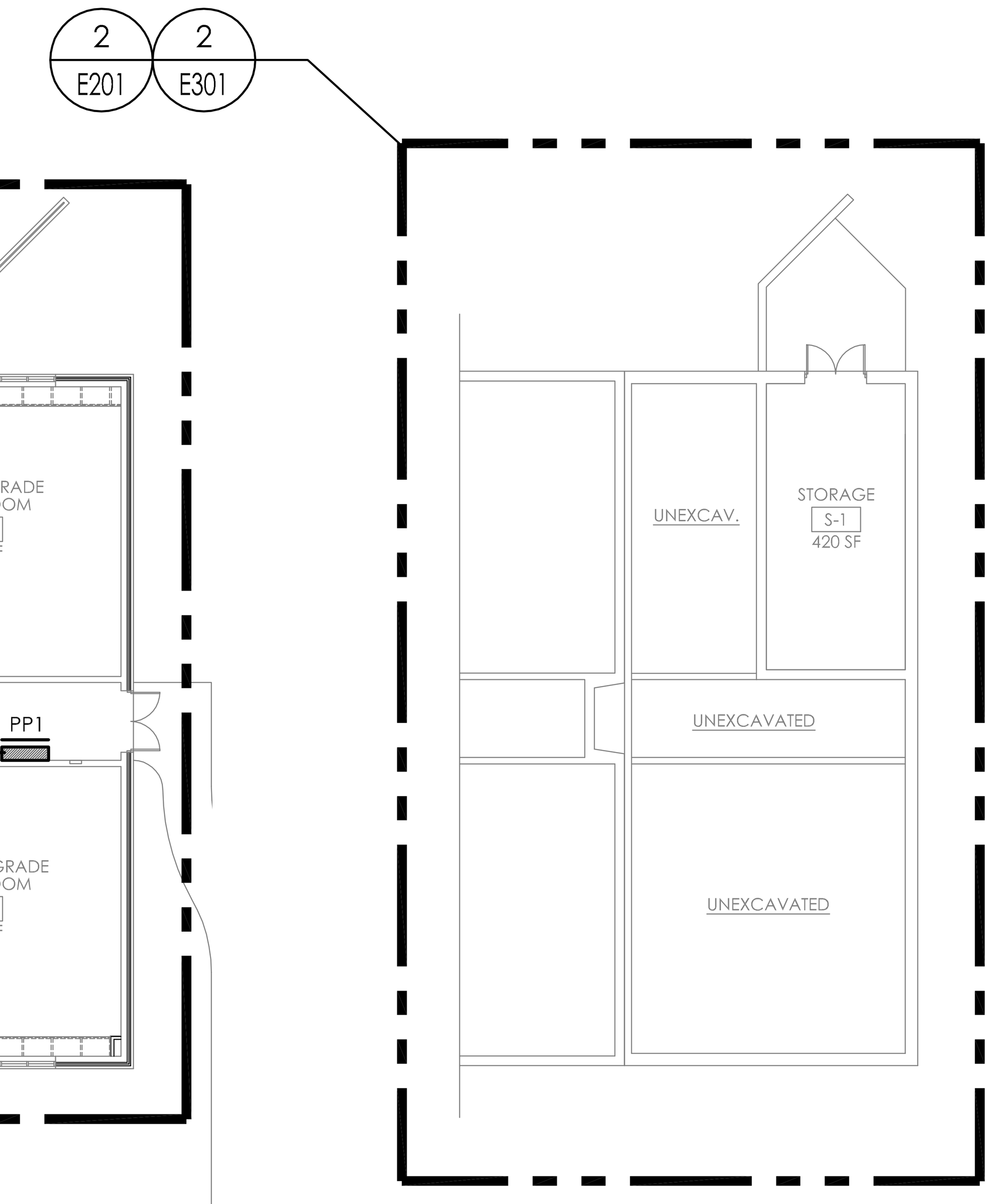
KEY NOTES:

1. PROVIDE (4) #3/0, (1) #6 GND IN 3" RGS CONDUIT FROM MDP LOCATION IN BASEMENT TO NEW PANEL PP1 IN CORRIDOR OF NEW ADDITION. CONDUIT TO BE RUN ABOVE FINISHED CEILINGS.
2. PROVIDE (1) 150A, 3-POLE, 120/208V CIRCUIT BREAKER IN SPARE LOCATION IN EXISTING MDP. CIRCUIT BREAKER TO BE UL LISTED AND LABELED AND MATCH AIC RATING OF PANEL. LABEL AS PANEL PP1 (NEW WING).
3. PROVIDE NECESSARY WIRING FROM FACP IN BASEMENT TO NEW NAC PANEL IN STORAGE ROOM INDICATED. WIRING TO BE RUN ABOVE FINISHED CEILING.
4. PROVIDE 6-STRAND SINGLE-MODE FIBER OPTIC CABLE FROM EXISTING NETWORK EQUIPMENT IN MAIN DATA RACKS TO NEW WALL MOUNTED DATA RACK IN STORAGE ROOM INDICATED. PROVIDE NECESSARY TERMINATIONS AND CONNECTIONS TO FIBER EQUIPMENT AT EACH END. COORDINATE WITH OWNER. PROVIDE 1-1/4" INNERDUCT, ABOVE FINISHED CEILING, FOR WIRING PATHWAY.
5. PROVIDE WALL MOUNTED DATA RACK, TRIPPLITE MODEL NO. SRWGUDP OR EQUIVALENT. PROVIDE ALL HORIZONTAL AND VERTICAL WIRE MANAGEMENT, AND PATCH PANELS AS NECESSARY TO ACCOMMODATE ALL DATA CABLING. EACH SYSTEM TYPE (DATA, PHONE, SECURITY) SHALL HAVE THEIR OWN PATCH PANELS. WIRING SHALL BE DIFFERENT COLORS FOR EACH SYSTEM. COORDINATE FINAL CABLE COLOR SELECTION WITH OWNER. CONTRACTOR TO PROVIDE ALL TESTING AND TERMINATIONS. COORDINATE PLACEMENT WITH OWNER. REFER TO DRAWING E201 FOR FURTHER INFORMATION.
6. PROVIDE A NOTIFICATION CIRCUIT PANEL (NAC) BOX AT LOCATION INDICATED FOR ZONE EXTENSION OF FIRE ALARM SYSTEM. NEW ADDITION SHALL BE IT'S OWN ZONE. REFER TO DRAWING E201 FOR FURTHER INFORMATION.



1 E100 **FIRST FLOOR ELECTRICAL KEY PLAN**
SCALE: 1/16" = 1'-0"

2 E100 **BASEMENT ELECTRICAL KEY PLAN**
SCALE: 1/16" = 1'-0"



3 E100 **NEW ADDITION BASEMENT PLAN**
SCALE: 1/16" = 1'-0"

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ARCHITECTURE ▪ ENGINEERING ▪ PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

STATE OF NEW YORK — ANTHONY R. MARCHETTI — No. 1608 1533 — LICENSED PROFESSIONAL ENGINEER

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT
SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	MAY	JBT

SCALE AS SHOWN

SHEET TITLE
FIRST FLOOR ELECTRICAL KEY PLAN

PROJECT NUMBER
14428.11

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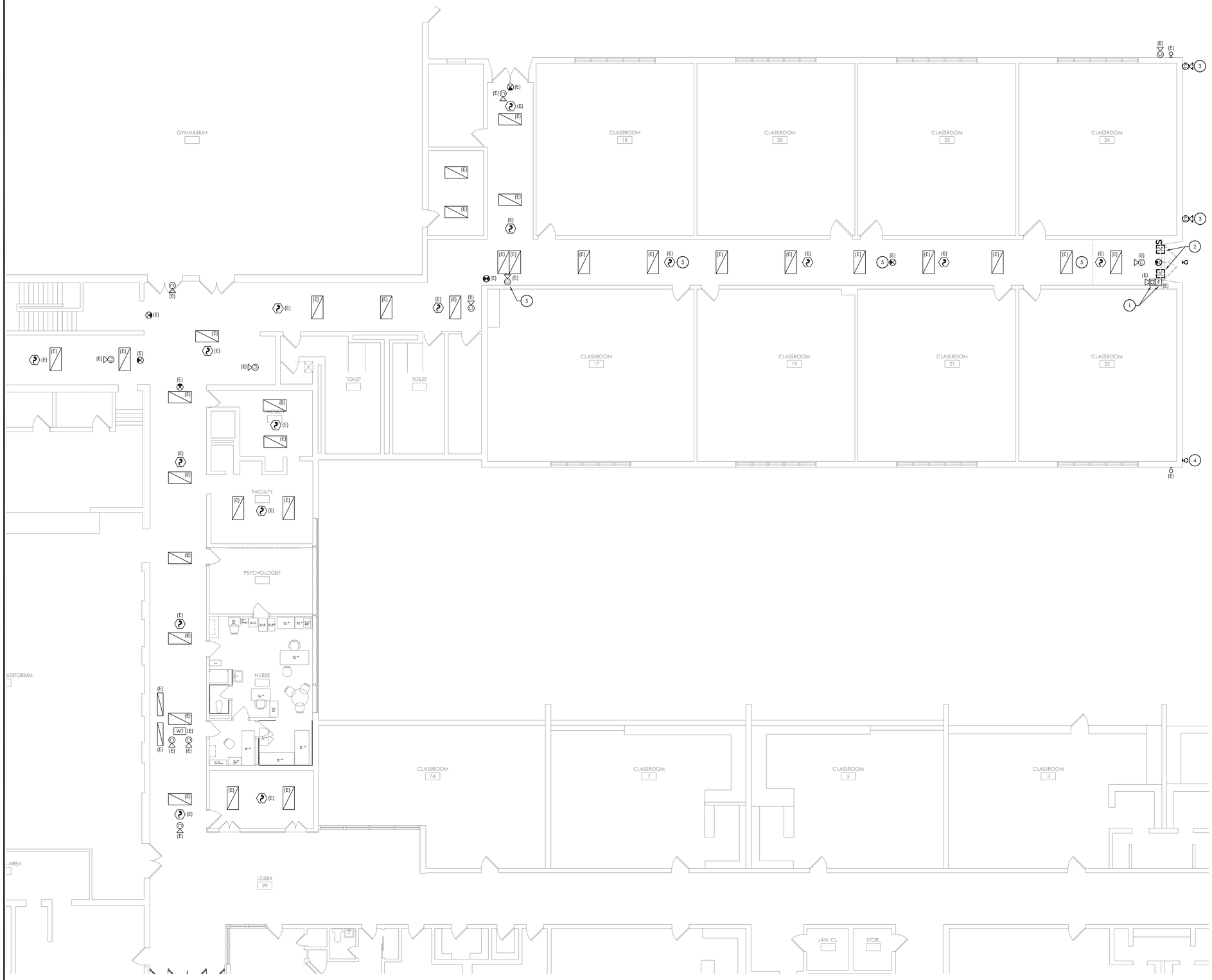
DRAWING NUMBER



GENERAL NOTES:

A. ALL ITEMS SHOWN ARE TO BE REMOVED UNLESS LABELED AS (E) EXISTING TO REMAIN. ANY DEVICE, AS WELL AS ITS ASSOCIATED CIRCUITING, AND CONDUIT, LABELED "(E)" SHALL REMAIN, UNLESS OTHERWISE NOTED.

B. INFORMATION ON DRAWINGS WAS OBTAINED THROUGH FIELD OBSERVATION AND AS-BUILT DOCUMENTATION. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ANY DEVICES AND CABLING THAT MAY NOT BE SHOWN ON DRAWING AT NO ADDITIONAL COST TO OWNER.

C. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE AT NO ADDITIONAL COST.

D. THE CONTRACTOR SHALL REMOVE THE EXISTING ELECTRIC IN AREAS OF NEW RENOVATIONS TO ACCOMMODATE NEW CONSTRUCTION. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK AS NOTED IN THE FOLLOWING NOTES.

E. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.

F. COORDINATE DEMOLITION OF EQUIPMENT, DEVICES, ETC. WITH OTHER DISCIPLINES AS APPLICABLE. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES FOR COORDINATION.

G. ALL ITEMS (DEVICES, FIXTURES, ETC.) SHOWN ARE TO BE REMOVED UNLESS LABELED AS EXISTING TO REMAIN - (E). THESE ITEMS AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE CONTROL PANEL/PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

H. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ITEMS AND/OR EQUIPMENT BEING REMOVED AS PART OF THE PROJECT. THE OWNER SHALL HAVE THE RIGHT OF RETAINING ANY ITEMS BEING REMOVED.

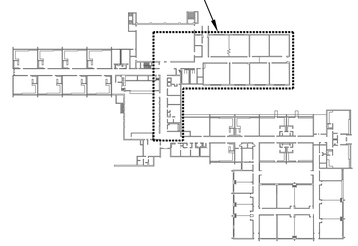
I. CONTRACTOR SHALL PROVIDE NEW COVERPLATES ON ALL UNUSED FLUSH MOUNT DEVICE BOXES UPON COMPLETION OF PROJECT.

J. FIREPROOFING AND/OR FIRE STOP MATERIALS REMOVED FROM FIRE RATED WALLS AND CEILINGS AS A RESULT OF DEMOLITION SHALL BE RE-INSTALLED USING AN APPROVED METHOD AS DESCRIBED IN ASSOCIATED PROJECT SPECIFICATIONS.

KEY NOTES:

1. DISCONNECT EXISTING FIRE ALARM DEVICES AND STORE FOR RE-USE. TAG EXISTING WIRING FOR RE-USE. REFER TO DRAWING E201 FOR NEW LOCATIONS.
2. DISCONNECT EXISTING DOOR CONTACTS AND STORE FOR RE-USE. TAG EXISTING WIRING FOR RE-USE. REFER TO DRAWING E201 FOR NEW LOCATION.
3. DISCONNECT EXISTING SECURITY CAMERAS AND STORE FOR RE-USE. EXISTING WIRING TO REMOVED BACK TO SOURCE.
4. DISCONNECT AND REMOVE EXISTING WALL PACK AND STORE FOR RE-USE. EXISTING WIRING TO BE REMOVED BACK TO SOURCE.
5. EXISTING CEILING TO BE REMOVED AND REPLACED. DISCONNECT AND REMOVE ALL CEILING MOUNTED DEVICES INDICATED. STORE FOR RE-INSTALLATION. PULL ALL WIRING BACK AND TAG FOR RE-USE. ONCE CEILING IS RE-INSTALLED, PLACE EXISTING CEILING MOUNTED DEVICES BACK IN SIMILAR LOCATIONS AND CONNECT TO EXISTING TAGGED WIRING. REWORK/EXTEND WIRING AS NECESSARY TO ACCOMMODATE POSSIBLE NEW DEVICE LOCATIONS.

AREA OF WORK



KEY PLAN
SCALE: N.T.S.

1 / E101 **FIRST FLOOR ELECTRICAL DEMOLITION PLAN**
SCALE: 1/8" = 1'-0"

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ARCHITECTURE ▪ ENGINEERING ▪ PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

ANTHONY R. MASCETTI
LICENSED PROFESSIONAL ENGINEER
No. 1606 7533

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
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SCALE AS SHOWN

SHEET TITLE
FIRST FLOOR ELECTRICAL DEMOLITION PLAN

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14428.11

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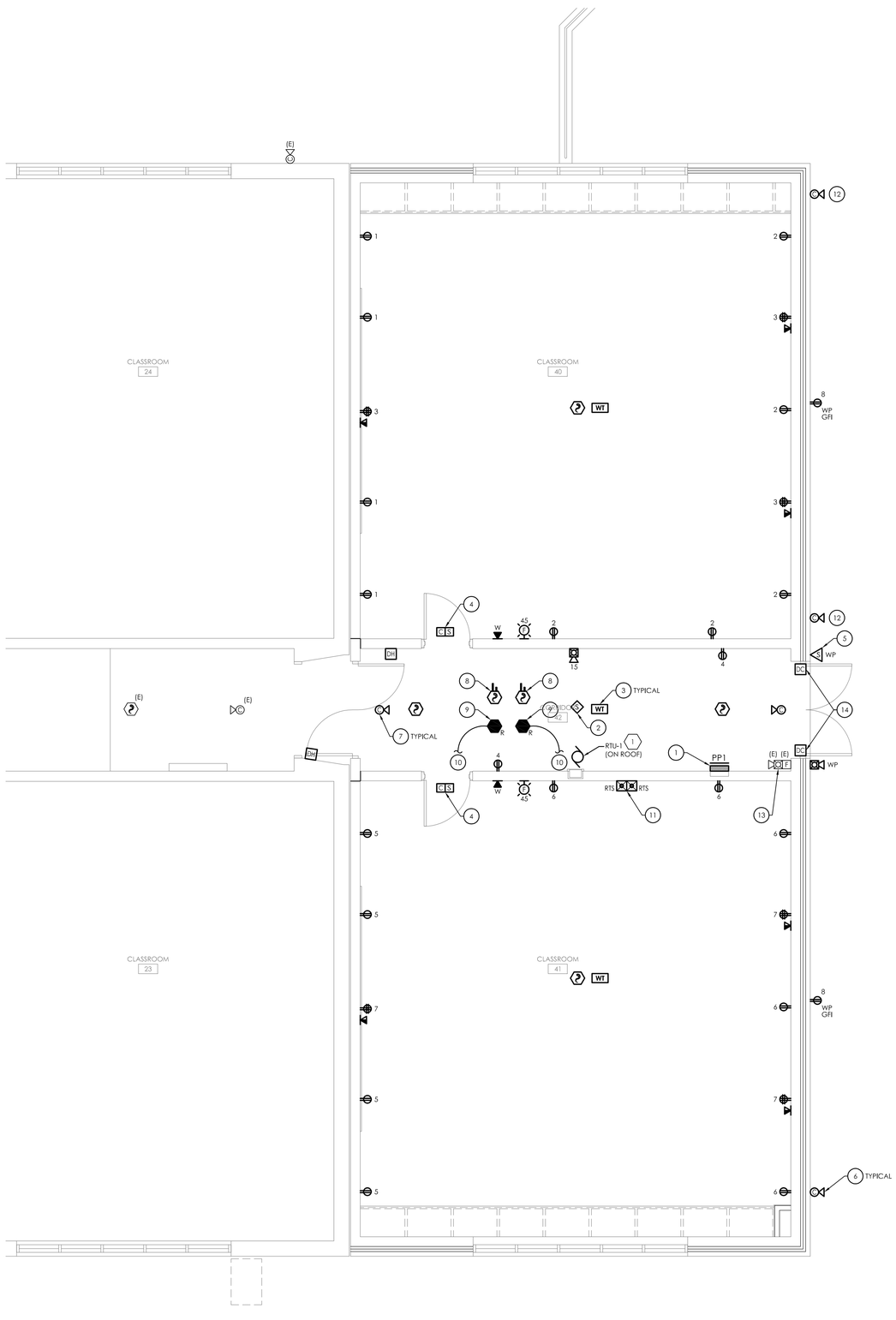
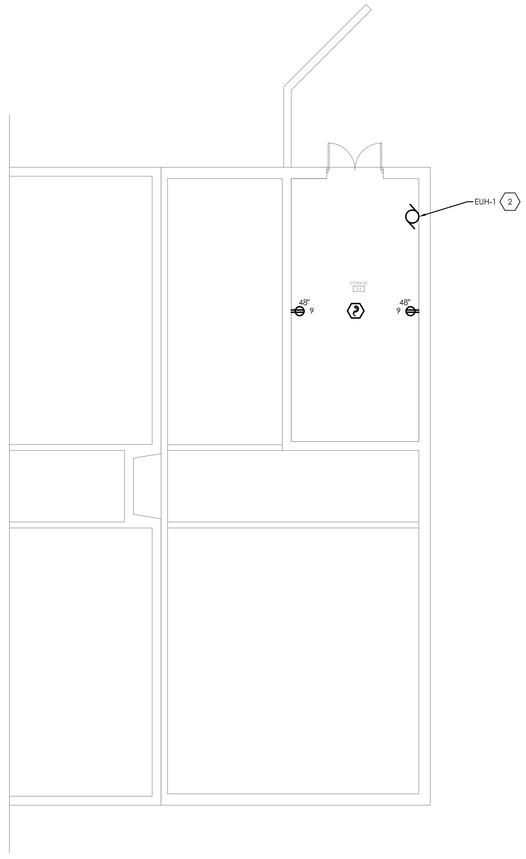


1 E201 **FIRST FLOOR ELECTRICAL NEW WORK PLAN**
SCALE: 1/4" = 1'-0"



2 E201 **BASEMENT STORAGE ELECTRICAL NEW WORK PLAN**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. UNLESS NOTED OTHERWISE, CONNECT ALL NEW DEVICES TO PANEL "PP1", IN CORRIDOR, WITH CIRCUIT NUMBER ADJACENT TO DEVICE. WIRE WITH (2) #12, (1) #12, IN 3/4" CONDUIT.

B. PROVIDE #10 THHN FOR ANY CIRCUITS OVER 100'.

C. AT EACH (X) SYMBOL, REFER TO DRAWING E900 FOR ALL POWER REQUIREMENTS.

D. FOR ALL DATA/VOICE DROPS SHOWN, PROVIDE FLUSH 2-GANG BOX WITH SINGLE GANG DEVICE RING. PROVIDE (2) CATEGORY 6 UTP CABLES IN 1-1/4" CONDUIT TO ABOVE FINISHED CEILING SPACE TO DATA RACK. SEE DRAWING BES-E100 FOR DATA RACK LOCATION. PROVIDE 2-PORT FACE PLATE, BRACKETS, (2) RJ-45 JACKS, ETC., AT EACH DROP LOCATION.

E. ALL SYSTEMS CABLING SHALL BE RUN IN FREE-AIR AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS. J-HOOKS NOT TO EXCEED 5-0" SPACING.

F. THE CONTRACTOR SHALL PROVIDE NEW NOTIFICATION APPLIANCE (NAC) PANEL ON EACH FLOOR TO ACCOMMODATE NEW NOTIFICATION DEVICES. PANELS SHALL BE LOCATED IN ACCESSIBLE CLOSET SPACE ON ASSOCIATED FLOOR. COORDINATE EXACT PANEL LOCATION WITH OWNER PRIOR TO INSTALLATION. SERVE NEW NAC PANEL FROM NEAREST AVAILABLE 120VAC PANELBOARD SOURCE WITH (2) #12, #12 G IN 1/2" EMT CONDUIT. CIRCUIT LENGTHS EXCEEDING 100' SHALL BE WITH #10 AWG. PROVIDE 20/1 CIRCUIT BREAKER IN AVAILABLE PANEL SPACE AND ASSOCIATED "BREAKER ON" LOCK. NEW CIRCUIT BREAKER SHALL BE U.L. LISTED AND MATCH EXISTING PANEL INTERRUPTING RATING.

G. INITIATION DEVICES SHOWN SHALL NOT BE LOCATED IN A DIRECT AIRFLOW PATH OR CLOSER THAN 3' OF AN AIR SUPPLY DIFFUSER OR RETURN AIR GRILLE.

H. FIRE ALARM CABLING RUN EXPOSED IN UNFINISHED AREAS SHALL BE INSTALLED IN EMT CONDUIT AND PAINTED TO MATCH EXISTING WALL/CEILING FINISH. HORIZONTAL RUNS THROUGH WALLS AND VERTICAL RUNS THROUGH FLOORS SHALL BE SLEEVED IN EMT CONDUIT AND FIRE CAULKED. ALL FIRE ALARM CABLING RUN EXPOSED IN FINISHED SPACES SHALL BE INSTALLED IN 500 SERIES STEEL WIREMOLD. IVORY IN COLOR.

I. MOUNT SMOKE DETECTORS WITHIN 5 FEET OF DOORS THAT CLOSE ON A FIRE ALARM ACTIVATION. REFER TO NFPA 72 FOR THE MINIMUM DISTANCE A SMOKE DETECTOR CAN BE FROM DOOR.

J. FOR PUBLIC MODE, WALL MOUNTED VISUALS OR AUDIBLE/VISUALS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR. REFER TO NFPA 72 FOR CEILING MOUNTED VISUALS. REFER TO NFPA FOR SPACING OF STROBES. WHERE CEILING HEIGHTS ALLOW, WALL MOUNTED AUDIBLE ONLY APPLIANCES SHALL HAVE THEIR TOPS ABOVE FINISHED FLOOR AT HEIGHTS OF NOT LESS THAN 90".

K. THE OPERABLE PART OF PULL STATIONS SHALL BE MOUNTED MORE THAN 3-1/2 FEET BUT LESS THAN 4-1/2 FEET ABOVE THE FLOOR. REFER TO NFPA FOR SPACING OF DEVICES.

L. REFER TO MANUFACTURER INSTALLATION GUIDELINES FOR DUCT SMOKE DETECTOR INSTALLATION.

M. ADDRESSABLE DEVICES SHOULD ONLY BE INSTALLED IN AREAS WHERE AMBIENT TEMPERATURE IS BETWEEN 32° AND 100° F.

N. CIRCUIT DISCONNECT MEANS (BREAKER IN PANELBOARD) FOR THE FACP SHALL HAVE A RED MARKING AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". CIRCUIT DISCONNECT LOCATION SHALL BE PERMANENTLY IDENTIFIED AT THE FACP ON AN ENGRAVED LABEL. EXISTING CIRCUIT IS CURRENTLY SERVED VIA NORMAL BRANCH POWER FROM PANELBOARD LOCATED IN MAIN ELECTRICAL ROOM.

O. EACH MANUAL FIRE ALARM PULL STATION SHALL BE PROVIDED WITH PULL STATION COVER WITH HORN.

P. SECURITY CAMERAS AND WIRELESS TRANSMITTER SYMBOLS ARE JUST

KEY NOTES:

1. PROVIDE NEW RECESSED 150-AMP, 120/208V, 3-PHASE, 4-WIRE, 10K AIC, 30 CIRCUIT PANEL BOARD AT LOCATION SHOWN. NEW PANEL TO BE FED FROM MDP IN BASEMENT. REFER TO DRAWING E100 FOR LOCATION.

2. PROVIDE PUBLIC ADDRESS SPEAKER AT LOCATION SHOWN. SPEAKER TO MATCH EXISTING MANUFACTURER IN BUILDING AND BE COMPATIBLE WITH EXISTING PUBLIC ADDRESS SYSTEM. PROVIDE ALL WIRING NECESSARY TO TIE NEW SPEAKERS INTO EXISTING CORRIDOR WIRING.

3. AT EACH WIRELESS TRANSMITTER INDICATED PROVIDE (2) CATEGORY 6 UTP CABLES AND (2) RJ45 JACKS ABOVE CEILING. COIL 20' OF EXTRA CABLING AT LOCATION. WIRELESS TRANSMITTER BY OWNER.

4. PROVIDE COMBINATION CLOCK/SPEAKER UNIT LOCATED ABOVE DOOR OR WHERE SHOWN AT ALL LOCATIONS SHOWN. PROVIDE ALL WIRING NECESSARY BACK TO PUBLIC ADDRESS AND CLOCK SYSTEMS IN MAIN OFFICE AREA.

5. PROVIDE EXTERIOR HORN SPEAKER AT LOCATION SHOWN. SPEAKER TO MATCH EXISTING MANUFACTURER IN BUILDING, AND BE COMPATIBLE WITH EXISTING PUBLIC ADDRESS SYSTEM. CONNECT TO SPEAKER WIRING INSIDE BUILDING.

6. AT EACH EXTERIOR SECURITY CAMERA INDICATED, PROVIDE (2) CATEGORY 6 UTP CABLES AND (2) RJ45 JACKS IN EXTERIOR RECESS MOUNTED JUNCTION BOX. JUNCTION BOX TO BE MOUNTED AT 10' A.F.F. IN BRICK FACADE. COIL 10' OF EXTRA CABLING INSIDE BUILDING ABOVE CEILING. SECURITY CAMERA BY OWNER.

7. AT EACH SECURITY CAMERA INDICATED PROVIDE (2) CATEGORY 6 UTP CABLES AND (2) RJ45 JACKS ABOVE CEILING. COIL 20' OF EXTRA CABLING AT EACH LOCATION.

8. PROVIDE DUCT SMOKE DETECTOR FOR SUPPLY AND RETURN LINES OF RTU'S. PROVIDE FAN SHUT DOWN RELAYS SO THAT UNIT WILL SHUT DOWN ALL FANS ASSOCIATED WITH UNIT ON ANY ACTIVATION OF THE BUILDING FIRE ALARM PANEL.

9. PROVIDE FAN SHUT DOWN RELAYS AT HVAC EQUIPMENT CONTROLS. INTERCONNECT RELAY TO BUILDING FIRE ALARM SYSTEM TO SHUT DOWN FAN MOTOR WHEN THE FIRE ALARM IS ACTIVATED.

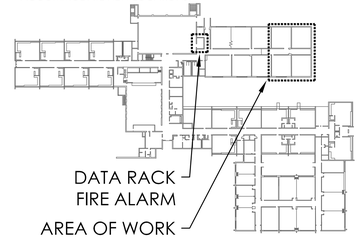
10. PROVIDE ASSOCIATED REMOTE TEST SWITCHES IN CEILING BELOW.

11. INSTALL CEILING MOUNTED TEST SWITCHES. SWITCHES ARE ASSOCIATED WITH DUCT SMOKE DETECTOR IN THE SUPPLY AND RETURN MAIN LINE TRUNKS OF ROOFTOP UNIT INDICATED. COORDINATE LOCATION AND MOUNTING WITH OWNER PRIOR TO INSTALLATION.

12. CONNECT EXISTING SECURITY CAMERAS TO NEW WIRING.

13. NEW LOCATION OF EXISTING FIRE ALARM DEVICES. CONNECT TO EXISTING TAGGED CIRCUITRY. REWORK/EXTEND WIRING AS NECESSARY TO ACCOMMODATE NEW LOCATIONS.

14. LOCATION OF RELOCATED DOOR CONTACTS. CONNECT TO EXISTING TAGGED WIRING. REWORK/EXTEND WIRING AS NECESSARY TO ACCOMMODATE NEW LOCATIONS.



KEY PLAN
SCALE: N.T.S.

CPLteam.com
ARCHITECTURE ▪ ENGINEERING ▪ PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

STATE OF NEW YORK
ANTHONY R. MASCETTI
LICENSED PROFESSIONAL ENGINEER
No. 092832

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
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12/18/20	MAY	JBT

SCALE AS SHOWN

SHEET TITLE
BASEMENT AND FIRST FLOOR ELECTRICAL NEW WORK PLANS

PROJECT NUMBER
14428.11

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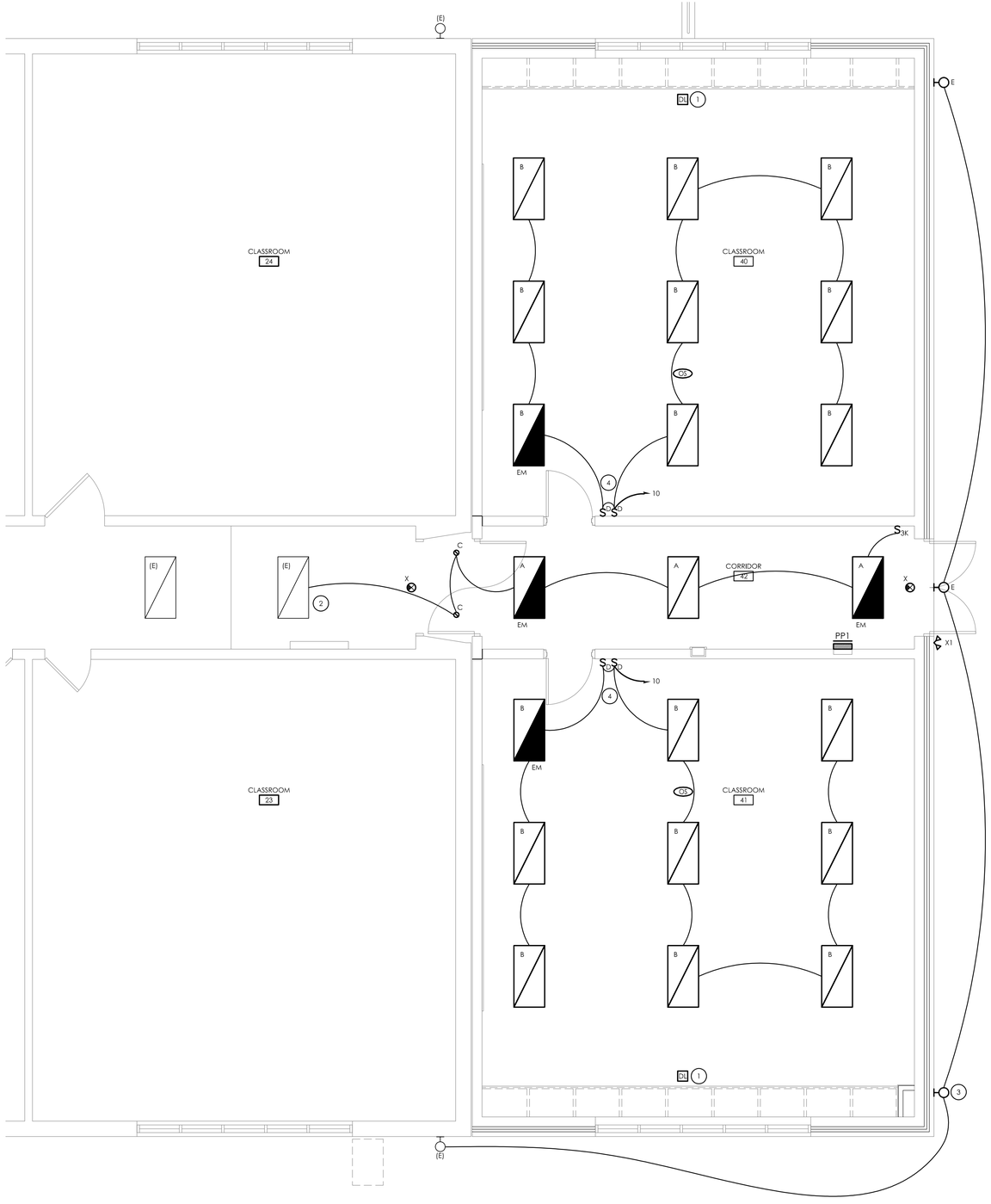
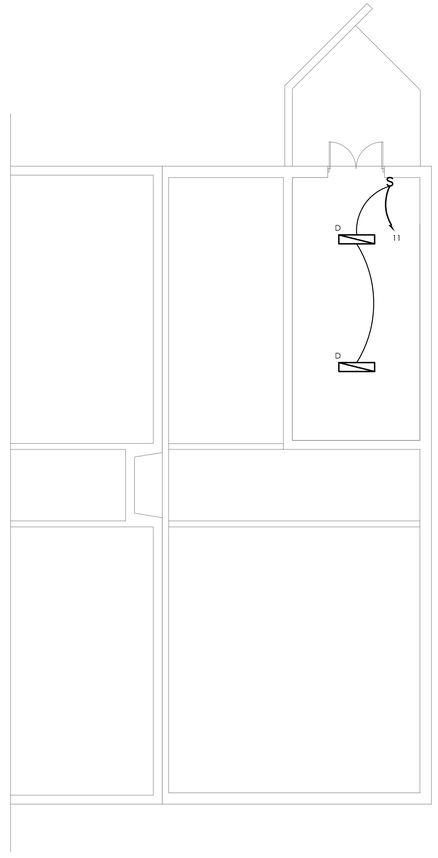


1 E301 **FIRST FLOOR LIGHTING PLAN**
SCALE: 1/4" = 1'-0"



2 E301 **BASEMENT STORAGE LIGHTING PLAN**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. UNLESS NOTED OTHERWISE, CONNECT NEW SWITCHING AND LIGHT FIXTURES SHOWN TO PANEL "PP1" IN CORRIDOR, WITH THE CIRCUIT INDICATED. WIRE WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT.

B. FIXTURE MARK INDICATED ADJACENT TO NEW LIGHT FIXTURE. REFER TO LUMINAIRE SCHEDULE ON DRAWING BES-E900 FOR FIXTURE DESCRIPTION, NOTES, AND SPECIFICATIONS.

C. PROVIDE #10 THHN FOR ANY CIRCUITS OVER 100'.

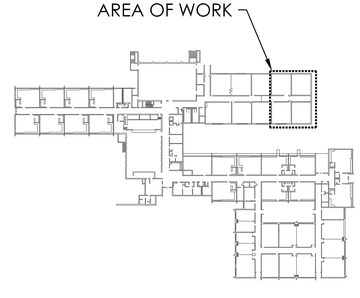
KEY NOTES:

1. CONNECT ALL FIXTURES WITHIN DAYLIGHT ZONE (FIRST ROW NEAR WINDOWS) TO ROOM PHOTOCELL/DAYLIGHT SENSOR. PROGRAM TO ADJUST/DIM THE FIXTURES WITHIN ZONE BASED ON DAYLIGHT DISTRIBUTION. FIXTURES SHALL BE SET SO THAT ROOM MAINTAINS 50 FOOTCANDLES (FC).

2. NEW CORRIDOR LIGHTING TO BE TIED INTO EXISTING CORRIDOR LIGHTING AND SWITCHING.

3. RELOCATE EXISTING WALL PACK TO LOCATION SHOWN. PROVIDE BACKBOX, CONDUIT, AND WIRING. PROVIDE (2) #12, (1) #12GND IN 3/4" CONDUIT TO EXISTING EXTERIOR WIRING CIRCUITRY. TIE INTO NEAREST EXITING LIGHT FIXTURE.

4. PROVIDE ALL NEW LOW-VOLTAGE WIRING BETWEEN NEW SWITCHING AND NEW LIGHT FIXTURES. REFER TO SPECIFICATION SECTION 260924 FOR FURTHER INFORMATION.



KEY PLAN
SCALE: N.T.S.

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ARCHITECTURE ▪ ENGINEERING ▪ PLANNING
50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

STATE OF NEW YORK
ARTHUR R. MASSETTI
LICENSED PROFESSIONAL ENGINEER
No. 102832

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
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SCALE AS SHOWN

SHEET TITLE
BASEMENT AND FIRST FLOOR LIGHTING PLANS

PROJECT NUMBER
14428.11

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LUMINAIRE SCHEDULE

MARK	DESCRIPTION	DESIGN MAKE	MODEL #	VOLTS	LAMP			REMARKS
					QTY	WATTS	MODEL #	
A	2X4 RECESSED FLAT PANEL LED FIXTURE	HUBBELL LIGHTING	CFP24-55/41/3435	UNV	-	39	3500K	-
A/EM	2X4 RECESSED FLAT PANEL LED FIXTURE WITH EMERGENCY BATTERY BACKUP	HUBBELL LIGHTING	CFP24-55/41/3435-PLD10M	UNV	-	39	3500K	4,5
B	2X4 RECESSED LED TROFFER	HUBBELL LIGHTING	50L-G-D-24-SOF-C1-35K9-D440-DO1-UNV	UNV	-	38	3500K	-
B/EM	2X4 RECESSED LED TROFFER WITH EMERGENCY BATTERY BACKUP	HUBBELL LIGHTING	50L-G-D-24-SOF-C1-35K9-D440-DO1-UNV	UNV	-	38	3500K	4,5
C	4" LED RECESSED DOWNLIGHT	HUBBELL LIGHTING	LTR-4RD-H-HL-40L-DM1-LTR-4RD-T-HL-35K-8-MD-SS-WC-FMR4-R	UNV	-	194	3500K	-
X	EXIT LIGHTING	HUBBELL LIGHTING	EUE-U-R-W-E-I	UNV	-	2	-	4,5
X1	REMOTE EMERGENCY HEADS	HUBBELL LIGHTING	EVO-D-B	UNV	-	2	-	2,4,5,6
D	1X4 SURFACE LED	HUBBELL LIGHTING	LXEM-4-ML-RP-E-U-SSL	UNV	-	42	3500K	1
E	LED EXTERIOR WALL MOUNT	LITHONIA LIGHTING	OLWX1-LED-40W-50K	UNV	-	40	5000K	3

REMARKS:

1. FIXTURE TO BE SURFACE MOUNTED TO CONCRETE DECK
2. FIXTURES TO BE MOUNTED AT 8' A.F.G.
3. FIXTURES TO BE MOUNTED AT 11' A.F.G.
4. ALL FIXTURES SHOWN WITH AN "EM" DESIGNATION INDICATES EMERGENCY LIGHTING FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP FOR EACH FIXTURE INDICATED.
5. ALL EMERGENCY FIXTURES "EM" SHALL HAVE 90-MINUTE BATTERY CAPACITY AND HAVE INTEGRAL TEST SWITCH.
6. ALL EXTERIOR EMERGENCY LAMPS SHALL BE TIED TO EXIT LIGHTING.

ELECTRICAL EQUIPMENT WIRING SCHEDULE

ITEM NUMBER	EQUIPMENT	ROOM NUMBER	HP/ FLA	VOLTS	PHASE	AMPS	BREAKER SIZE/ FUSE SIZE	WIRE/CONDUIT SIZE	PANEL/CCT	REMARKS
1	RTU-1	ROOF	-	230	3	46A	50A/3P	(3) #6, #10G IN 1"C	PP1-25,27,29	1
2	EUH-1	S-1	-	208	1	14A	20A/2P	(3) #12, #12G IN 3/4"C	PP1-28,30	1

REMARKS:

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE MOUNTING, AND LINE/LOAD SIDE CONNECTIONS OF DISCONNECT AND/OR STARTER DEVICE ASSOCIATED WITH UNIT. MEANS OF DISCONNECT AND/OR STARTER ASSOCIATED WITH UNIT PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT.

PANEL: PP1

LOCATION:	CORRIDOR	**EQUIPMENT SHORT CIRCUIT RATING:**	10K
VOLTAGE:	120/208V, 3-PHASE, 4-WIRE	**MAX AVAIL SHORT CIRCUIT CURRENT:**	X
FED FROM:	MDP	**MAIN CIRCUIT BREAKER:**	150A
MOUNTING:	RECESSED	**MAIN BUS:**	225A

	LOCATION	P	AMP	LOAD-KVA AØ	LOAD-KVA BØ	LOAD-KVA CØ	LOAD-KVA AØ	LOAD-KVA BØ	LOAD-KVA CØ	AMP	P	LOCATION	
1	RECEPTS: 40	1	20	X			X			20	1	RECEPTS: 40	2
3	RECEPTS: 40	1	20		X			X		20	1	RECEPTS: 42	4
5	RECEPTS: 41	1	20			X			X	20	1	RECEPTS: 41	6
7	RECEPTS: 41	1	20	X			X			20	1	RECEPTS: EXTERIOR	8
9	RECEPTS: S-1	1	20		X			X		20	1	LIGHTING: 40, 42	10
11	LIGHTING S-1	1	20			X			X	20	1	LIGHTING: EXTERIOR	12
13	SPARE	1	20	X			X			20	1	SPARE	14
15	SPARE	1	20		X			X		20	1	SPARE	16
17	SPARE	1	20			X			X	20	1	SPARE	18
19	SPARE	1	20	X			X			20	1	SPARE	20
21	SPARE	1	20		X			X		20	1	SPARE	22
23	SPARE	1	20			X			X	20	1	SPARE	24
25		3	50	X			X			20	1	SPARE	26
27	RTU-1				X			X		20	2	EUH-1	28
29						X			X				30
	TOTAL LOAD			X	X	X	X	X	X				

CPLteam.com
ARCHITECTURE ▪ ENGINEERING ▪ PLANNING

50 FRONT STREET, SUITE 202
NEWBURGH, NEW YORK 12550
TEL (800) 274-9000
FAX (845) 567-9614

STATE OF NEW YORK
ANTHONY R. MASCITTI
No. 102832
LICENSED PROFESSIONAL ENGINEER

OSSINING UNION FREE SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
CLASSROOM ADDITION PROJECT
SED# 66-14-01-03-0-001-022

DATE	DRAWN	CHECKED
12/18/20	MAY	JBT

SCALE AS SHOWN

SHEET TITLE
ELECTRICAL SCHEDULES

PROJECT NUMBER
14428.11

BES
E900
DRAWING NUMBER